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KEY
TO
OSTER'S ELEMENTS AND EXAMPLES
IN
ARITHMETIC

LONDON
SIMPKIN, MARSHALL, & CO.
1881



KEY

TO

OSTER'S ELEMENTS AND EXAMPLES

IN

ARITHMETIC



LONDON

SIMPKIN, MARSHALL, & CO.

1881

181. g. 192*

LONDON: PRINTED BY
SPOTTISWOODE AND CO., NEW-STREET SQUARE
AND PARLIAMENT STREET

ANSWERS TO ARITHMETIC.

EXAMPLES. I.

1. Forty-two thousand and thirty-one.
2. Eighty-two thousand and three.
3. Ten thousand and twenty-four.
4. Two millions, three hundred and forty thousand.
5. Seven hundred and twenty-one millions and one.
6. Three hundred millions, ten thousand and twenty.
7. Eighty-two thousand one hundred and thirty millions, ten thousand and one.
8. Seven billions, two hundred thousand millions, one hundred and two thousand three hundred and forty-five.
9. One thousand billions, two hundred millions, one hundred and seventy-eight thousand and five.
10. Three trillions, ninety thousand nine hundred and eight billions, seven hundred millions, seven hundred thousand, two hundred and one.

EXAMPLES. II.

- | | |
|---------------------------|---------------------------|
| 1. 40026. | 2. 81022. |
| 3. 9000001. | 4. 79010301. |
| 5. 100000000. | 6. 650020010000001. |
| 7. 105005025000. | 8. 300000000000000000003. |
| 9. 800000000000401000000. | 10. 10000010000010000001. |

EXAMPLES. III.

- | | |
|------------------|-------------------|
| 1. 878. | 2. 1716. |
| 3. 37018. | 4. 82249066. |
| 5. 44656765. | 6. 7271407323. |
| 7. 814178210287. | 8. 29686775391. |
| 9. 898191549350. | 10. 844433792025. |

EXAMPLES. IV.

- | | |
|--------------|-----------------|
| 1. 316. | 2. 321. |
| 3. 304. | 4. 3620. |
| 5. 58993. | 6. 2031259. |
| 7. 5924441. | 8. 9010902. |
| 9. 28999846. | 10. 1560208272. |

PAPER No. 1.

- | | |
|---|---------------|
| 1. 829989. | 2. 72888. |
| 3. 1039281. | 4. 621467. |
| 5. 928215 and 911787. | 6. 577000. |
| 7. One million, two hundred and nine thousand, three hundred and sixty-seven. | 8. 21004026. |
| 9. 13168093 and 9168067. | 10. 63936000. |

EXAMPLES. V.

- | | |
|---------------|-----------------|
| 1. 1442. | 2. 4230. |
| 3. 59368. | 4. 738945. |
| 5. 1002170. | 6. 1334795. |
| 7. 16802760. | 8. 25280688. |
| 9. 240939919. | 10. 4229190261. |

EXAMPLES. VI.

- | | |
|----------------|-------------------|
| 1. 2170. | 2. 163260. |
| 3. 8912700. | 4. 6736008000. |
| 5. 1892700. | 6. 16009600. |
| 7. 1898910000. | 8. 232093686000. |
| 9. 262171200. | 10. 898628400000. |

EXAMPLES. VII.

- | | |
|--------------------|-----------------------|
| 1. 4473. | 2. 316778. |
| 3. 24118227. | 4. 449760213. |
| 5. 303340213. | 6. 54734070203. |
| 7. 84051263759. | 8. 6521017224942. |
| 9. 50011521214410. | 10. 3327141956611716. |

EXAMPLES. VIII.

- | | |
|---------------|-----------------|
| 1. 246672. | 2. 578490. |
| 3. 272025. | 4. 1065900. |
| 5. 91489920. | 6. 39441600. |
| 7. 103875264. | 8. 10730881728. |
| 9. 20801520. | 10. 965112000. |

EXAMPLES. IX.

- | | |
|--------------|------------------|
| 1. 137621. | 2. 26913. |
| 3. 156209. | 4. 107357. |
| 5. 86833—3. | 6. 929157—8. |
| 7. 27985—10. | 8. 100204—1. |
| 9. 6405437. | 10. 81669232—11. |

EXAMPLES. X.

- | | |
|-------------------|--------------------|
| 1. 116285. | 2. 1381007. |
| 3. 29. | 4. 20141—624. |
| 5. 1210900—1051. | 6. 8826211—8303. |
| 7. 457878404—311. | 8. 64059008. |
| 9. 64059008. | 10. 41461196—5185. |

EXAMPLES. XI.

- | | |
|---------------|-----------------|
| 1. 1490249—9. | 2. 97424—68. |
| 3. 38868—76. | 4. 34491—80. |
| 5. 41356—160. | 6. 950822—1300. |
| 7. 50655—737. | 8. 10005—903. |
| 9. 12112—115. | 10. 414884—133. |

EXAMPLES. XII.

- | | |
|----------------|-----------------|
| 1. 410—13. | 2. 3630—4. |
| 3. 1206—322. | 4. 8—78624. |
| 5. 833—44704. | 6. 66—8440. |
| 7. 4094—39043. | 8. 338—18507. |
| 9. 355—445475. | 10. 9166—50001. |

PAPER No. 2.

1. 81592.
2. 776593.
3. Two thousand one hundred and thirty-five million, six hundred and twenty thousand and one.
4. 1000900000001000005.
5. 24651.
6. 23171064.
7. 106—3.
8. 1045—217.
9. 202—11.
10. 3—9451.

EXAMPLES. XIII.

- | | |
|------------------------------------|---------------------------|
| 1. 68910 farthings. | 2. 152896 halfpence. |
| 3. 160171 shillings. | 4. 29125 sixpences. |
| 5. 2952525 q . | 6. 18090642 lbs. |
| 7. 15890228 grs. | 8. 624410 grs. |
| 9. 67968 poles. | 10. 43907 feet. |
| 11. 906733 $\frac{1}{2}$ sq. feet. | 12. 1040159 sq. poles. |
| 13. 59975553 cubic inches. | 14. 89796 pence. |
| 15. 10320 fourpenny pieces. | 16. { 7285 florins. |
| 17. 9504000 feet. | { 43710 fourpenny pieces. |
| 18. 71680000 ounces. | { 174840 pence. |
| 19. 2532864 farthings. | 20. 2400 furlongs. |

EXAMPLES. XIV.

- | | |
|--|------------------------------|
| 1. 120 farthings. | 2. 288 pence. |
| 3. 80 shillings. | 4. 125 shillings. |
| 5. 7946 farthings. | 6. £7291 19s. 3d. |
| 7. £18285 19s. 9d. | 8. { 34645 florins—4 groats. |
| 9. 9499 moidores 9s. 3d. | { 13858 crowns—4 groats. |
| 10. £33651 1s. 11d. | { £3464—34 groats. |
| 11. 292992 oz. | 12. 1200 lbs. |
| 13. 39796 minutes. | |
| 14. 16394 hhds. 32 galls. 1 qt. 1 pt. | |
| 15. 1202 grs. 3 bush. 4 galls. 2 qts. | |
| 16. 10 tons 10 cwt. 1 qr. 4 lbs. 10 oz. | |
| 17. 134 lbs. 5 oz. 1 dwt. 10 grs. | |
| 18. 574° 27' 54". | |
| 19. 167 acres 2 roods 33 sq. poles 14 $\frac{3}{4}$ sq. yds. 7 sq. feet. | |
| 20. 6 weeks 1 day 12 hrs. 3 min. 43 secs. | |

PAPER No. 3.

1. Five hundred and twenty-one millions and twenty-one.
2. 717003.
3. 15141742001.
4. 10—221.
5. 87.
6. $5 \times 5 \times 5$, $5 \times 4 \times 4$, $5 \times 4 \times 7$.
7. 224718624 and 311—487624.
8. $4336\frac{1}{2}$ fourpenny pieces.
9. 4.
10. 5300.

EXAMPLES. XV.

1. 1051.
2. $2081\frac{1}{4}$.
3. 468—8.
4. 6003.
5. £3605 8s.
6. £3108 14s.
7. 1503s. 10d.
8. £751 1s. 7d.
9. £42543 2s. 1d.
10. 6 cwt. 3 qrs. 15 lbs. 9 oz.
11. 14045 yds.
12. 32203 tons 15 cwt. 0 qrs. 21 lbs.
13. 13164 m. 7 f. 4 p. 2 yds. 0 ft. 8 in.
14. 9126063 yds. 1 ft.
15. 180028 qrs. 3 b. 7 galls. 1 qt.
16. £1165 1 half-crown.
17. 5086—33 sixpences.
18. 93689—2 groats.
19. 792310 gs.—10s.

PAPER No. 4.

1. 72921.
2. 606,144,000.
3. 25—92.
4. 29,899,999,999,109.
5. 17 years.
6. £30864.
7. The eldest; £12850002 5s. $4\frac{1}{2}d$.
8. $12 \times 7 \times 10$.
9. 3 yds. 17 ft. 594 in.
10. 9381 lbs.

EXAMPLES. XVI.

1. £7 13s. 10d.
2. £9 6s. $4\frac{1}{4}d$.
3. £40 7s. $4\frac{1}{4}d$.
4. £297 0s. $0\frac{1}{2}d$.
5. 5 cwt. 3 qrs. 13 lbs.
6. 9 m. 7 fur. 36 p. 5 yds.
7. 43 ac. 3 r. 11 p. $19\frac{3}{4}$ yds.
8. 45 bush. 1 gall. 2 qts.
9. £143 7s. 6d.
10. 394 lbs. 5 oz. 9 dwts. 14 gra.

EXAMPLES. XVII.

- | | |
|---------------------------|---------------------------|
| 1. £1 4s. 2d. | 2. £4 10s. 10d. |
| 3. £17 17s. 10½d. | 4. £19997 11s. 3¾d. |
| 5. 1 cwt. 0 qr. 1 lb. | 6. 4 bush. 2 gall. 3 qts. |
| 7. 9 yds. 26 ft. 1184 in. | 8. £100. |
| 9. £15 16s. 8d. | 10. £19275. |

PAPER No. 5.

- | | |
|--|-----------------------|
| 1. 1,267,000,000,102. | |
| 2. 12×9 ; $12 \times 6 \times 4$; $9 \times 9 \times 10 \times 10$. | |
| 3. 365. | 4. 132344¾ feet. |
| 5. 6889 cwt. 1 qr. 8 lbs. 14 oz. | |
| 6. £1070 4s. 8¾d. | 7. 156 ; £656 5s. 0d. |
| 8. 278. | 9. £5520. |
| 10. £424 4s. 0d. | |

EXAMPLES. XVIII.

- | | |
|----------------------------------|-------------------------|
| 1. £4 9s. 5d. | 2. £44 9s. 10¾d. |
| 3. £7 tons 1 cwt. 2 qrs. 4 lbs. | 4. £583 11s. 8d. |
| 5. £1105 19s. 2d. | 6. 89 yds. 21 ft. 0 in. |
| 7. 314 l. 1 m. 0 f. 10 p. | |
| 8. 128 lbs. 6 oz. 8 dwts. 0 grs. | |
| 9. £9764 19s. 7½d. | |
| 10. 22 rds. 21 p. 24¾ yds. | |

EXAMPLES. XIX.

- | | |
|-------------------------------------|----------------------------|
| 1. £240 17s. 4d. | 2. £499 11s. 5d. |
| 3. £1984 16s. 9d. | 4. 37 tons 3 cwt. 3 qrs. |
| 5. 2793 bush. 0 gall. 2 qts. 0 pts. | 6. 33965 tons 5 cwt. 1 qr. |
| 7. £1450272 15s. 10½d. | 8. £726675. |
| 9. £7488 13s. 1½d. | |
| 10. 140 tons 15 cwt. 0 qrs. 20 lbs. | |

EXAMPLES. XX.

- | | |
|----------------|----------------------|
| 1. £5 3s. 10d. | 2. £16 15s. 1¼d.—2q. |
| 3. £10 1s. 1d. | 4. £7 4s. 5¼d.—7q. |

5. £23 4s. 7½*d.*—3*q.*
6. 5 tons 4 cwt. 1 *qr.*
7. 4 lbs. 9 oz. 8 dwts. 18 grs.—4 grs.
8. 36 m. 6 f. 16 p. 1 yd. 2 ft. 8 in.
9. 9 d. 3 hrs. 17 m. 47 sec.—8 sec.
10. 102 ac. 3 r. 30 p. 21 sq. yds. 5 ft. 66 in.—6 in.

EXAMPLES. XXI.

1. £5 6s. 4½*d.*—5½*d.*
2. £3 0s. 5*d.*—4*d.*
3. 19s. 7¾*d.*—2*d.*
4. 15s. 4¾*d.*—1s. 7¾*d.*
5. 11s. 11¼*d.*—10*d.*
6. 19s. 9¼*d.*—1s.
7. 26 lbs. 8 oz. 10 drs.—14 drs.
8. 2 oz. 4 dwts. 21 grs.—15 grs.
9. 3 hrs. 9 m. 12 sec.—20 sec.
10. 3° 14' 2"—60 sec.

EXAMPLES. XXII.

1. £3 3s. 10¾*d.*—4¼*d.*
2. £1 4s. 5¾*d.*—1s.
3. £2 19s. 5*d.*—1s. 7*d.*
4. £2 19s. 7¼*d.*—1s. 10¾*d.*
5. £1 17s. 4*d.*
6. £27 4s. 10¾*d.*—6*d.*
7. £13 7s. 7*d.*—1s. 7*d.*
8. £2 7s. 5¼*d.*—1s. 9*d.*
9. 2 tons 13 cwt. 2 qrs. 8 lbs. 15 oz. 5 drs.—3 oz. 9 drs.
10. 7 m. 250 yds. 0 ft. 5 in.

PAPER No. 6.

1. 489907 gs. 18s. 9*d.*
2. 8 persons; £1 5s 6*d.* rem.
3. £1736; £264.
4. £1573146 13s. 8*d.*
5. 300—131.
6. £900.
7. £790 16s. 8*d.*
8. £11 7s. 0*d.*; £1 0s. 0*d.*, £4 14s. 6*d.*, £5 12s. 6*d.*
9. 412 yds. 1 ft. 6 in.
10. £437 10s. 0*d.*

EXAMPLES. XXIII.

1. 6.
2. 2.
3. 15.
4. 5.
5. 2.
6. 3½.
7. 4.
8. 4.
9. 1½.
10. 35.

PAPER No. 7.

- | | |
|---------------------------------------|------------------------------|
| 1. 26,952,037,180. | 2. 9364440 guineas 18 shill. |
| 3. 22. | 4. 63. |
| 5. £2 13s. 9d. | 6. 100 yds. |
| 7. £29 7s. 4½d.—1s. 11½d. | |
| 8. 17537435992000. | 9. 164 yds. 8 ft. 62 in. |
| 10. A man gets £1 16s. ; a woman 18s. | |

EXAMPLES. XXIV.

- | | |
|-----------------------------|-------------------------|
| 1. 40 horses. | 2. 1s. 10½d. |
| 3. £2 0s. 6d. | 4. £58 3s. 2d. |
| 5. 5 men. | 6. 57 loads. |
| 7. 4 months. | 8. £15 15s. 0d. |
| 9. 3 days. | 10. £514 4s. 9d. |
| 11. 10 oz. | 12. £6880. |
| 13. 10 cwt. 2 qrs. 22½ lbs. | 14. 125 sheep. |
| 15. £42 4s. 7½d. | 16. £5 16s. 10½d. |
| 17. £1 17s. 4d. | 18. 3 m. 3 f. 211⅔ yds. |
| 19. 7 h. 8 m. 14⅔ sec. | 20. £217 13s. 5⅔d. |

PAPER No. 8.

- | | |
|--------------------|--------------------------|
| 1. 134899. | 2. 6574—46. |
| 3. £19429 18s. 0d. | 4. £20576 2s. 4d. |
| 5. 9s. 2¼d.—19. | 6. 14 cwt. 2 qrs. 2 lbs. |
| 7. £23 10s. 6¾d. | 8. £3 12s. 4d. |
| 9. ⅔. | 10. £1693 10s. 0d. |

EXAMPLES. XXV.

- | | | | | |
|---------|--------|--------|---------|---------|
| 1. 108. | 2. 4. | 3. 96. | 4. 216. | 5. 28. |
| 6. 7. | 7. 66. | 8. 24. | 9. 147. | 10. 16. |

EXAMPLES. XXVI.

- | | | | |
|----------|--------------|-----------|----------|
| 1. 8835. | 2. 26818650. | 3. 27720. | 4. 24. |
| 5. 2660. | 6. 335160. | 7. 17640. | 8. 1680. |
| 9. 5460. | 10. 20700. | | |

PAPER No. 9.

1. Seven hundred billions, one thousand two hundred and seven millions, four hundred and eighty-nine thousand and one.

2. 277 m. 5 f. 12 p. 4 yds. 0 ft. 6 in.

3. £20527 3s. 6½d.

4. 1 ton 5 cwt. 2 qrs.

5. £134 13s. 4½d.

6. 3.

7. 39.

8. 48412.

9. 17040.

10. 613800.

EXAMPLES. XXVII.

1. $\frac{5}{8}$.

2. $\frac{52}{171}$.

3. $\frac{19}{180}$.

4. $\frac{31}{2}$.

5. $\frac{119}{117}$.

6. $\frac{1241}{15440}$.

7. $\frac{1034}{1747}$.

8. $\frac{15}{23}$.

9. $\frac{2}{7}$.

10. $\frac{11}{18}$.

EXAMPLES. XXVIII.

1. $\frac{12}{4}$.

2. $\frac{79}{10}$.

3. $\frac{88}{11}$.

4. $\frac{209}{20}$.

5. $\frac{144}{24}$.

6. $\frac{54}{3}$.

7. $\frac{175}{23}$.

8. $\frac{143}{13}$.

9. $\frac{240}{13}$.

10. $\frac{816}{34}$.

EXAMPLES. XXIX.

1. $\frac{34}{5}$.

2. $\frac{79}{9}$.

3. $\frac{67}{4}$.

4. $\frac{87}{8}$.

5. $\frac{267}{17}$.

6. $\frac{104}{9}$.

7. $\frac{127}{8}$.

8. $\frac{937}{4}$.

9. $\frac{19922}{23}$.

10. $\frac{11991}{11}$.

EXAMPLES. XXX.

1. $6\frac{2}{3}$.

2. $4\frac{27}{8}$.

3. 200.

4. $22\frac{171}{73}$.

5. $77\frac{111}{830}$.

6. 20.

7. $11\frac{3179}{4187}$.

8. $36\frac{109}{2001}$.

9. $8\frac{431}{219}$.

10. $40\frac{755}{3492}$.

PAPER No. 10.

1. Seven hundred and twenty-four and sixty-four one-hundred-and-sevenths.

2. 4590492.

3. 7 hrs. 44 min.

4. £352 16s. 8d.

5. 111.

6. 16200.

7. $\frac{32}{167}$.

8. $\frac{84}{12}$.

9. $21\frac{13}{9}$.

10. $11\frac{38383}{8217}$.

EXAMPLES. XXXI.

1. $\frac{12}{30}, \frac{10}{30}$.
2. $\frac{36}{132}, \frac{55}{132}, \frac{22}{132}$.
3. $\frac{45}{120}, \frac{54}{120}, \frac{65}{120}$.
4. $\frac{2464}{3168}, \frac{864}{3168}, \frac{1386}{3168}, \frac{495}{3168}$.
5. $\frac{15}{80}, \frac{24}{80}, \frac{18}{80}, \frac{35}{80}, \frac{52}{80}$.
6. $\frac{17138}{22032}, \frac{4131}{22032}, \frac{19440}{22032}, \frac{459}{22032}, \frac{1904}{22032}$.
7. $\frac{114800}{138300}, \frac{5289}{138300}, \frac{7755}{138300}$.
8. $\frac{16800}{63840}, \frac{6080}{63840}, \frac{13965}{63840}, \frac{14592}{63840}, \frac{5016}{63840}$.
9. $\frac{10710}{3748500}, \frac{120393}{3748500}, \frac{600593}{3748500}$.
10. $\frac{90810300}{792128400}, \frac{4887000}{792128400}, \frac{3194772}{792128400}$.

EXAMPLES. XXXII.

1. $\frac{6}{17}$.
2. $\frac{1}{30}$.
3. $\frac{37}{48}$.
4. $5\frac{5}{27}$.
5. $\frac{6}{275}$.
6. $16\frac{523}{792}$.
7. $298\frac{139}{430}$.
8. $3138\frac{88}{991}$.
9. $\frac{28}{45}$.
10. $13498\frac{1}{54}$.

PAPER No. 11.

1. 3541.
2. $1041\frac{3}{4}$ in.
3. £4 16s. $2\frac{3}{4}$ d.
4. 17 m. 6 fur. 10 po.
5. $x=16$.
6. $\frac{13}{150}$.
7. $\frac{2275}{27}$.
8. $22\frac{30018}{37181}$.
9. $\frac{2695}{4820}, \frac{1260}{4820}, \frac{2079}{4820}, \frac{1056}{4820}$.
10. $2\frac{8}{45}$.

EXAMPLES. XXXIII.

1. $1\frac{35}{104}$.
2. $2\frac{1}{30}$.
3. $14\frac{7}{8}$.
4. $16\frac{4}{5}$.
5. $\frac{251}{315}$.
6. $71\frac{13}{28}$.
7. $20\frac{41}{48}$.
8. $13\frac{89}{180}$.
9. $76\frac{101}{880}$.
10. $22\frac{53}{272}$.

EXAMPLES. XXXIV.

1. $\frac{1}{14}$.
2. $\frac{5}{22}$.
3. $7\frac{17}{22}$.
4. $11\frac{3}{4}$.
5. $6\frac{26}{45}$.
6. $\frac{37}{216}$.
7. $6\frac{8}{45}$.
8. $78\frac{8898}{9999}$.
9. $6\frac{2}{3}$.
10. $\frac{23}{30}$.

PAPER No. 12.

- | | |
|--------------------------|----------------------------|
| 1. 46—175450. | 2. 198 l. 2 m. 1 f. 27 po. |
| 3. 4 ac. 1 r. 38 pls. | 4. £346 17s. 6d. |
| 5. £1501 14s. 10d. | 6. 864. |
| 7. $\frac{13549}{887}$. | 8. $518\frac{22}{477}$. |
| 9. $17\frac{7}{90}$. | 10. $11\frac{10}{91}$. |

EXAMPLES. XXXV.

- | | | | |
|-----------------------|-----------------------------|----------------------|------------------------|
| 1. $\frac{56}{985}$. | 2. $\frac{11}{34}$. | 3. $\frac{13}{18}$. | 4. $2\frac{22}{45}$. |
| 5. $\frac{35}{85}$. | 6. $3\frac{31}{48}$. | 7. $6\frac{4}{15}$. | 8. $53\frac{91}{56}$. |
| 9. $\frac{21}{32}$. | 10. $1\frac{3573}{43904}$. | | |

EXAMPLES. XXXVI.

- | | | | |
|------------------------|-----------------------|----------------------------|-----------------------|
| 1. $\frac{2}{14}$. | 2. $\frac{37}{32}$. | 3. $1\frac{13}{4}$. | 4. $6\frac{26}{81}$. |
| 5. $\frac{27}{665}$. | 6. $1\frac{37}{98}$. | 7. $\frac{1880}{368149}$. | 8. $4\frac{15}{61}$. |
| 9. $\frac{174}{808}$. | 10. $8\frac{8}{37}$. | | |

PAPER No. 13.

- | | |
|---|------------------------|
| 1. 1,000,000,203,000,000,001. | 2. 104—12. |
| 3. £264440 16s. $4\frac{1}{4}d.$ —2s. 6d. | |
| 4. 18 yds. 0 qrs. 1 nl. $\frac{1}{4}$ in. | 5. $\frac{968}{888}$. |
| 6. $763\frac{107}{604}$. | 7. $64\frac{2}{5}$. |
| 8. $263\frac{1}{2}$. | 9. $1\frac{1}{2}$. |
| 10. $64\frac{1}{2}$. | |

EXAMPLES. XXXVII.

- | | | | |
|--------------------------|------------------------|---------------------------|------------------------|
| 1. $\frac{5}{47}$. | 2. $\frac{571}{876}$. | 3. $\frac{187}{480}$. | 4. $\frac{21}{400}$. |
| 5. $\frac{25}{37}$. | 6. $\frac{69}{80}$. | 7. $\frac{3097}{13454}$. | 8. $\frac{35}{1104}$. |
| 9. $\frac{960}{19943}$. | 10. $\frac{3}{32}$. | | |

EXAMPLES. XXXVIII.

- | | |
|---|---|
| 1. 9s. | 2. 18s. 8d. |
| 3. 6 fur. 16 pls. | 4. £1 15s. $9\frac{1}{2}d.$ — $\frac{1}{4}q.$ |
| 5. 14s. $9\frac{1}{4}d.$ — $\frac{1}{11}q.$ | 6. £10 12s. 6d. |
| 7. £1 12s. 6d. | 8. 9s. $6\frac{1}{2}d.$ — $\frac{1}{2}q.$ |
| 9. 7 cwt. 3 qrs. 2 lbs. | 10. 97 ac. 3 r. 35 po. |

EXAMPLES.

- | | |
|-----------------|-------------------|
| 1. £7 10s. | 2. £37296. |
| 3. £17 6s. 8d. | 4. £86 5s. 0½d. |
| 5. 12½ gals. | 6. 3¾ lbs. |
| 7. 1¼. | 8. £21333 6s. 8d. |
| 9. £1 11s. 7½d. | 10. £60. |

PAPER No. 14.

1. Seven hundred and twenty-four and seven twenty-fifths.
- | | |
|--------------------------------------|---|
| 2. $10\frac{6646}{20081}$. | 3. $2\frac{10}{11}$. |
| 4. $\frac{11}{20}$. | 5. $16\frac{2}{3}$. |
| 6. $3\frac{162}{11}$. | 7. 3s. $1\frac{1}{4}$ d. — $\frac{10}{11}$ q. |
| 8. £9 6s. 3d. and $12\frac{5}{12}$. | 9. $\frac{11}{25}$. |
10. £4 16s.

PAPER No. 15.

- | | | |
|---|--|-----------------------------|
| 1. $\frac{197}{11}$. | 2. $5\frac{7}{30}$. | 3. $11\frac{1}{24}$. |
| 4. $5\frac{63}{8}$. | 5. $43\frac{223}{80}$. | 6. $3\frac{1}{2}$. |
| 7. $9\frac{1}{4}$ d. — $\frac{13}{18}$ q. | 8. $\frac{168}{420}$, $\frac{175}{420}$, $\frac{180}{420}$. | 9. 9s. and $\frac{2}{70}$. |
10. $\frac{43}{182}$.

EXAMPLES. XXXIX.

- | | | | |
|---------------------------|---------------------|----------------------|-------------------------|
| 1. $\frac{1}{4}$. | 2. $\frac{1}{40}$. | 3. $\frac{1}{400}$. | 4. $\frac{931}{2500}$. |
| 5. $\frac{6201}{10000}$. | 6. .025. | 7. .26. | 8. .00214. |
| 9. 3·002. | 10. .000821. | | |

EXAMPLES. XL.

- | | |
|--------------------|--------------------------|
| 1. 112·12242. | 2. 330·41107. |
| 3. 27·167764. | 4. 343·472082. |
| 5. 45·54582845. | 6. 23·24758885794. |
| 7. 76·626245062. | 8. 91·8591566657. |
| 9. 24201·38320056. | 10. 1547·74504674791803. |

EXAMPLES. XLI.

- | | |
|----------------|-----------------|
| 1. 3·601. | 2. 9·2261. |
| 3. 5·99926. | 4. .27591. |
| 5. 20·9918413. | 6. 55·60632687. |

PAPER No. 18.

1. Seven hundred and one billion, two hundred and thirty-four thousand two hundred and thirteen million, nine hundred thousand and two hundred and thirteen.

- | | |
|-----------------------------|---------------------------|
| 2. 3s. 6d. | 3. £22 14s. |
| 4. $27\frac{87}{97}$. | 5. £29 2s. 5d. |
| 6. 4602·868899773462931878. | |
| 7. 3172000. | 8. $41\frac{839}{1877}$. |
| 9. 50152407 &c. | 10. $1\frac{152}{83}$. |

EXAMPLES. XLVI.

- | | |
|---|----------------------|
| 1. £·16. | 2. £·22083. |
| 3. £·427083. | 4. ·075 tons. |
| 5. ·178125. | 6. 13s. 8½d.—·2544q. |
| 7. 10s. 10½d.—·568q. | 8. 8s. 3¾d.—·936q. |
| 9. 2 qrs. 14 lbs. | |
| 10. 2 rds. 16 pls. 15 sq. yds. 1 sq. ft. 18 sq. in. | |

EXAMPLES. XLVII.

1. ·10416̇.
2. ·54022+ would recur if carried back, as 87 is divisible by 3.
3. ·2100603+ would recur if carried back, as 2485 is divisible by 7.
4. ·42603+ would recur if carried back, as 1183 is divisible by 7.
5. ·242245370̇.
6. ·1455748552522760113316790736̇.
7. ·375.
8. ·5640254+
9. ·5.
10. ·20625.

EXAMPLES. XLVIII.

- | | |
|---------------------------|-------------------------------------|
| 1. 2 cwt. 2 qrs. 13½ lbs. | 2. £8575. |
| 3. £9 15s. | 4. £1 8s. 1½d. |
| 5. 3 hrs. 29½. | 6. £113 8s. |
| 7. £35. | 8. £8 3s. 0¾d.— $\frac{87}{195}q$. |
| 9. £95 2s. 2¾d. | 10. 9 hrs. 45¾ min. |

PAPER No. 19.

1. 454914 barley corns.
2. £12 0s. $3\frac{3}{4}d.$ —112q.
3. 25591050.
4. $10\frac{5}{8}$.
5. $\frac{3036}{4019}$.
6. 133·38071725 and 9880·0531296.
7. $\frac{32083}{24750}$ or $\frac{77333}{24750}$.
8. 0407.
9. ·003038000406042145905.
10. £4965 12s. $8\frac{1}{2}d.$ — $\frac{39}{87}q.$

EXAMPLES.

1. £1051 17s. 11d.
2. £22976 14s.
3. £95 9s. $1\frac{1}{4}d.$
4. £17 5s.
5. £25326.
6. £8 19s. $10\frac{3}{4}d.$ — $\frac{1}{2}q.$
7. £177 10s. $8\frac{1}{4}d.$
8. 7s. 7d.— $\frac{3}{7}q.$
9. £991 7s. $3\frac{1}{4}d.$ — $\frac{1}{2}q.$
10. £9 6s. 6d.

PAPER No. 20.

1. One hundred thousand and twenty-one millions, one hundred and seventy-four. Eighty-two and three thousand one hundred and seventy five ten-thousandths.

2. £426 4s. $1\frac{1}{2}d.$ — $\frac{3}{4}q.$
3. $3\frac{1477}{2391}$.
4. $3271\frac{119}{78}$ dollars.
5. 75600.
6. $3\frac{1}{2}$.
7. $\frac{11}{18}$.
8. 7·191616766.
9. £950 18s. $1\frac{1}{2}d.$
10. £18 14s. $0\frac{1}{4}d.$ — $\frac{1}{14}q.$

EXAMPLES. XLIX.

1. 15 days.
2. $50\frac{59}{83}$ weeks.
3. $159\frac{19}{24}$ cwt.
4. 25 days.
5. 27 labourers.
6. $63\frac{9}{17}$ days.
7. 54 days.
8. $880\frac{880}{1169}$.
9. $141\frac{1567}{2581}$.
10. 2 per cent.

EXAMPLES. L.

1. £164 0s. $8\frac{2}{3}d$.
2. £576 8s. 3d. and £4419 3s. 3d.
3. £64 18s. $8\frac{2}{3}d$.
4. £534 6s. $8\frac{1}{2}d$. and £7658 16s. $2\frac{1}{2}d$.
5. £402 18s.
6. £4 19s. $7\frac{7}{8}d$. and £264 13s. $0\frac{7}{8}d$.
7. £28 5s. $0\frac{9}{16}d$.
8. £455 2s. $8\frac{1}{8}d$.
9. £76 8s. $9\frac{1}{2}d$.
10. $2\frac{1}{2}$ years.

PAPER No. 21.

1. 1·8442723 and 1·1085.
2. 17s. 6d., 16s. 4d., and 3·383.
3. £8704 4s.
4. £39 3s. 4d.
5. 2 weeks.
6. 24 days.
7. £480 4s. $9\frac{1}{2}d$.
8. $4\frac{1}{2}$.
9. £75 13s. $8\frac{2}{3}\frac{4}{8}d$.
10. 20 years.

EXAMPLES. LI.

1. £62 8s. $7\frac{1}{2}d$.
2. £44 1s. $3\frac{1}{4}d$.— $\frac{1}{2}d$.
3. £15 11s. $5\frac{1}{4}d$.— $\frac{1}{8}s$.
4. £46 19s. $10\frac{1}{2}d$.
5. £405 3s. $4\frac{1}{2}d$.
6. £490 13s. $11\frac{1}{4}d$.
7. £829 11s. $7\frac{1}{2}d$.
8. £675 6s. 5d.
9. £326 19s. $9\frac{3}{4}d$.—774q.
10. £584 3s. $10\frac{1}{2}d$.—208q.

EXAMPLES. LII.

1. £14 4s. $0\frac{8}{10}\frac{6}{3}d$. and £473 8s. $5\frac{3}{10}\frac{7}{3}d$.
2. £480.
3. £150.
4. £5 5s.
5. £392 0s. $5\frac{5}{3}d$. and £2613 9s. $6\frac{1}{2}\frac{8}{3}d$.
6. £38 14s. $2\frac{5}{7}d$. and £774 4s. $6\frac{2}{7}d$.
7. £39506 3s. $5\frac{1}{3}\frac{3}{7}d$.
8. £2750.
9. £666 13s. 4d.
10. £43 9s. $4\frac{7}{8}\frac{3}{2}\frac{9}{7}d$.

EXAMPLES. LIII.

1. £686 5s.
2. £19 11s. 4½d.
3. £112 4s.
4. £127 14s. 6¾d.
5. £20366 13s. 4d.
6. £2 12s. 0½d.
7. £43 9s. 9¾d. and £27 5s. 4¾d.
8. £60 4s.
9. £180450.
10. £863 8s. 6¾d.

EXAMPLES. LIV.

1. £247 16s. 9½d.
2. £1876 6s. 11½d.
3. £953 6s. 1¼d.
4. £2550.
5. £35 14s. 3¾d. and £36 7s. 3¼d.
6. £2600.
7. £4 4s. 2½d.
8. £2333 6s. 8d.
9. £15166 13s. 4d.
10. £498 8s. 1½d.—¾q.

EXAMPLES. LV.

1. 3 qrs. 24 lbs.
2. 2 cwt. 2 qrs. 4¾ lbs.
3. 12s. 8d.
4. 33½.
5. £1 19s. 6¾d.
6. £6 16s. 7¾d.—28q.
7. 1s. 0¼d.—½s.
8. £50.
9. 8½.
10. £1 4s. 11½d.

PAPER No. 22.

1. 18·19.
2. £16 2s. 4d.
3. 4½ days.
4. £99 12s. 2¾d.—1½q.
5. £87 3s. 7½d.
6. £117 14s. 8¼d.—¾q.
7. £134 10s. 10½d.
8. 16s. 7d.
9. £2 6s. 8d.
10. £30645 9s. 1½d.

EXAMPLES. LVI.

1. £779 11s. 11½d.—¾d. and £480 8s. 0¼d.—¾s.
2. A's gain is £200, B's £2300, and C's £400.
3. A's share is £2344 13s., B's £3104 14s., and C's £3220 13s.
4. A's portion is 54 ac., B's 63 ac., and C's 48 ac.
5. A receives £105 4s. 10d., B £122 15s. 7¾d., C £52 12s. 5d., and D £35 1s. 7½d.

6. A pays £24, B £15, and C £41.
7. A's share is £111 16s. 10½d., and C's share £138 3s. 1½d.
8. 10000, 15000, 13400.
9. 112½ lbs., 37½ lbs.
10. 5 ft. 3 in., 7 ft. 0 in.

PAPER No. 23.

1. Twelve billions, nine hundred thousand and one millions, three hundred and seventy-four thousand.
2. 1906 mls. 2 fur. 19 pls. 4 yds. 1 ft. 2 in.
3. —10⁷³¹⁸¹⁰/₂₂₈₂₄₆₉. 4. 14s. 11½d.
5. 10s.
6. £10426 16s. 0d. and £62560 16s. 0d.
7. £225000. 8. £348 0s. 0½d. — ¹⁸/₂₈₇.
9. 10 per cent.
10. £900, £600, £300, £150, £150.

EXAMPLES. LVII.

1. £310 14s. 5¾d. 2. £787 15s.
3. £701 4s. 7½d. 4. 1725.
5. £393 13s. 4d. 6. £356 17s. 6d.
7. 8457 francs, 9 centimes.
8. 500 reis.
9. £4 15s. 3d. Draw in London and remit to Madrid.
10. 20s. 2¾d.

PAPER No. 24.

1. 8·9416962; 7·4926471; 5·953542+. . . would recur and ·088172007+. . . would recur.
2. £60 7s. 11¼d.
3. £187 10s. and £14087 10s.
4. £2000. 5. 5¹/₂₇ months.
6. £6¹⁸/₄₇. 7. 82²/₃ yds.
8. A's share £800 1s. 8d.; B's £600 1s. 3d.; C's £1000 2s. 1d.
9. 11s. 10½d. 10. £436 15s. 11½d. — ³⁴⁷/₇₈₆.

EXAMPLES. LVIII.

- | | |
|----------------------------|-----------------|
| 1. 36 apples. | 2. 4410 plums. |
| 3. $586\frac{2}{3}$ loads. | 4. £14 5s. 10d. |
| 5. £2000. | 6. 2s. 8d. |
| 7. 375 pears. | 8. 147 marks. |
| 9. £28 11s. 5½d. | 10. 3 Russians. |

PAPER No. 25.

1. Seventy-two billions, one hundred and three thousand millions, seven hundred and twenty-one thousand, eight hundred and ninety.

- | | |
|---|--------------------------------|
| 1. 4000001000027. | 2. 147. |
| 3. 15·4175101 and 1·0172373. | |
| 4. 480 men. | 5. £6 13s. 4d. |
| 6. 1s. $2\frac{1}{4}$ d. and $\frac{747}{828}$ q. | 7. $246153\frac{1}{3}$ sq. ft. |
| 8. 5 ft. 9' 3" 5''' 7'''' 4'''''. | |
| 9. 29 pls. sq. $2\frac{3}{4}$ sq. yds. | 10. 21120111. |

EXAMPLES. LIX.

- | | |
|-----------------------------|---------------------------------|
| 1. 6 months. | 2. 7 months. |
| 3. $14\frac{6}{19}$ months. | 4. $10\frac{23}{38}$ months. |
| 5. $14\frac{2}{3}$ months. | 6. $21\frac{556}{1771}$ months. |
| 7. $3\frac{3}{15}$ months. | 8. $5\frac{1}{2}$ months. |
| 9. $10\frac{1}{2}$ months. | 10. $5\frac{1}{4}$ months. |

EXAMPLES. LX.

- | | |
|---|---------------------------|
| 1. 7s. $4\frac{1}{2}$ d. | 2. 3s. |
| 3. 6s. $10\frac{1}{2}$ d.— $\frac{14}{87}$ d. per cwt. or $\frac{1}{2}$ d.— $\frac{752}{793}$ per lb. | |
| 4. 5s. | 5. £1 8s. |
| 6. £16 10s. | 7. 16 gallons. |
| 8. £103½. | 9. 19s. $7\frac{1}{2}$ d. |
| | 10. 25s. |

EXAMPLES. LXI.

- | | |
|--|-----------------------------|
| 1. 24 cwt. 0 qrs. 2 lbs. | 2. 60 cwt. 0 qrs. 12 lbs. |
| 3. 13 cwt. 1 qr. $17\frac{1}{2}$ lbs. | 4. 85 cwt. 0 qrs. 10 lbs. |
| 5. 34 cwt. 2 qrs. 9 lbs. | 6. 14 cwt. 1 qr. 4 lbs. |
| 7. £190 14s. $8\frac{1}{2}$ d. | 8. £153 11s. 3d. |
| 9. £186 14s. $9\frac{3}{4}$ d.— $\frac{1}{2}$ d. | 10. $53\frac{83}{145}$ lbs. |

EXAMPLES. LXII.

- | | | | |
|--------------------------|---------------------------|------------|----------------------|
| 1. 49. | 2. 10000. | 3. 524176. | 4. 512. |
| 5. 15625. | 6. 1296. | 7. 59049. | 8. $\frac{49}{84}$. |
| 9. $\frac{1728}{4913}$. | 10. $111\frac{145}{56}$. | | |

EXAMPLES. LXIII.

- | | | | |
|--------------------|------------|----------------------|----------|
| 1. 16. | 2. 145·31. | 3. 999. | 4. 2403. |
| 5. 5·8. | 6. ·073. | 7. ·146. | 8. ·024. |
| 9. 4·018 + | | 10. 2·9519 + | |

EXAMPLES. LXIV.

- | | | | |
|---------------------|-----------------------|-----------|--------------------|
| 1. 12. | 2. 25. | 3. 46. | 4. 319. |
| 5. 402. | 6. 10·6. | 7. 104·5. | 8. $\frac{4}{7}$. |
| 9. $3\frac{2}{3}$. | 10. $19\frac{5}{8}$. | | |

PAPER No. 26.

- | | |
|---|---------------------------|
| 1. $327\frac{11633}{11797}$. | 2. £400. |
| 3. $6\frac{2}{3}$ men. | 4. £145 2s. and £870 12s. |
| 5. £4 18s. $0\frac{1}{2}d.$ — $\frac{1}{4}q.$ and £245 1s. $11\frac{1}{2}d.$ — $\frac{2}{7}q.$ | |
| 6. 5 per cent. | |
| 7. A's share is £210 10s. $6\frac{1}{4}d.$ — $\frac{5}{8}q.$, B's share is £157 17s. $10\frac{1}{2}d.$ — $\frac{1}{9}q.$, C's share is £631 11s. $6\frac{3}{4}d.$ — $\frac{1}{9}q.$ | |
| 8. ·073. | 9. 99. |
| 10. $\frac{3}{7}$, 35, $\frac{3}{4}$, 10, $\frac{25}{38}$, $\frac{27}{84}$. | |

EXAMPLES. LXV.

- | | |
|--------------------------------|---------------------------|
| 1. 157·08 ft. | 2. 6·5 inches. |
| 3. 8 ft. 7·67257 inches. | 4. 3 ft. 11·42817 inches. |
| 5. $7908\frac{192}{21}$ miles. | 6. 141·4213 &c. ft. |
| 7. 500 ft. | 8. 2·3876084. |
| 9. 105·243268. | 10. 12 ft. |

EXAMPLES. LXVI.

- | | |
|-----------------------|--|
| 1. 596 sq. yds. 1 ft. | 2. 25 ft. $31\frac{1}{2}$ inches nearly. |
| 3. 143 nearly. | 4. 7370·4 yds. |
| 5. 35. | 6. 9·2 yds. |
| 7. 15·5888 nearly. | 8. 45·2548 ft. nearly. |
| 9. 138·22996 yds. | 10. 59 yds. 67 inches. |

EXAMPLES. LXVII.

- | | |
|---|-------------------------|
| 1. 2 ft. 9' 3''. | 2. 18 ft. 11' 6'' 8'''. |
| 3. 34 ft. 9' 2'' 3'''. | 4. 28·33 ft. |
| 5. 14·1372 cubic feet. | 6. 45 ft. |
| 7. 82425600 cubic feet. | |
| 8. 904·7808 cubic in., 1767·15 cubic in., 4849·0596 cubic in. | |
| 9. $41\frac{1}{2}$ ft. | |
| 10. 166·6929 cubic in., 15·1656 drams, 1·055 cubic in. | |

PAPER No. 27.

- | | |
|--|-----------------------|
| 1. 38·64 or $38\frac{1}{2}$. | 2. Loses 6 <i>d</i> . |
| 3. £99 1 <i>s</i> . $5\frac{2}{3}$ <i>d</i> . | |
| 4. 1528 florins, 13 stivers, $3\frac{1}{2}$ pence. | |
| 5. 23·45. | 6. 3·027. |
| 7. 3 ft. 11·42 + in. | 8. 27·71 + sq. ft. |
| 9. $70\frac{1}{2}$ sq. ft. | 10. 1728. |

EXAMPLES. LXVIII.

- | | |
|----------------------------------|------------------------------|
| 1. 27 ft. 1' 6''. | 2. 38 ft. 6' 11''. |
| 3. 72 ft. 6'. | 4. 27 ft. 7' 5''. |
| 5. 43 ft. 1' 6''. | 6. 730 ft. 7' 8''. |
| 7. 25 ft. 8' 6'' 2''' 3'''. | 8. 79 ft. 11' 0'' 6''' 6'''. |
| 9. 11402 ft. 2' 4'' 11''' 11'''. | |
| 10. 2988 ft. 2' 10'' 4''' 6'''. | |

EXAMPLES. LXIX.

- | | |
|--|--|
| 1. 196 sq. ft. 3' 4''. | 2. 62 sq. ft. 3' 0'' 11''' 3'''. |
| 3. 76 sq. ft. 3' 8''. | 4. 53 sq. ft. 7' 6''. |
| 5. 15 sq. ft. 4' 6''. | 6. 17 <i>s</i> . $8\frac{1}{3}$ <i>d</i> . |
| 7. £21 11 <i>s</i> . $5\frac{1}{4}$ <i>d</i> . | 8. 1296. |
| 9. 4 tons. | 10. $4071\frac{1}{2}$ inches. |

EXAMPLES. LXX.

- | | |
|---------------------------|---------------------------|
| 1. 7830·377 imp. gallons. | 2. 16·684 times. |
| 3. 6·232 galls. nearly. | 4. 304·752 galls. nearly. |
| 5. 244·733 galls. nearly. | 6. 20 bushels nearly. |
| 7. 21·033 bushels. | 8. 8·94432+. |
| 9. 908·545 nearly. | 10. 194·75 &c. |

PAPER No. 28.

- | | |
|---------------------------------------|-----------------------------|
| 1. 47206824. | 2. £6 13s. 7½d. |
| 3. £60 10s. 5½d.—2¼s. | 4. 6½ mo. |
| 5. 6s. 5d. | |
| 6. 10½d.—1¼q. per lb.; 1 cwt. 9½ lbs. | |
| 7. 8 cwt. 1 qr. 11 lbs. | 8. 502½, 628½, 1131, 1382½. |
| 9. £2 1s. 1d. | 10. 67885½ cubic in. |

EXAMPLES. LXXI.

- | | |
|---------------------------------|-------------------------------|
| 1. 37 acres, 2 roods, 30 poles. | |
| 2. 16 acres, 2 roods, 22 poles. | |
| 3. 11 acres, 4 poles. | 4. 5 acres, 1 rood, 31 poles. |
| 5. 9 acres, 38 poles nearly. | 6. 4½ chains. |
| 7. 8 chains. | 8. 10½ poles. |
| 9. 42 acres. | 10. 361·491 yards nearly. |

EXAMPLES. LXXII.

- | | | |
|--------------------------------|-----------|-------------|
| 1. 2050. | 2. 2030. | 3. 2100212. |
| 4. 278564. | 5. 22154. | 6. 531½l. |
| 7. 321—2. | 8. 14986. | 9. 403180. |
| 10. 21745 is greater by 21578. | | |

PAPER No. 29.

- | | |
|--|-------------------------|
| 1. —125. | 2. 13. |
| 3. £2 6s. | 4. 12909½. |
| 5. £4608. | 6. 3½ months. |
| 7. 3s. 4d. cost price. I lose 20 per cent. | |
| 8. £1550. £930. | 9. 3s. Gain £1 17s. 4d. |
| 10. 16 cwt. 0 qrs. 236337½. | |

PART II.

PAPER No. 30.

- | | |
|---|--|
| 1. 10245302. | 2. 120. |
| 3. 1352821. | 4. $\frac{2^8}{7}$. |
| 5. 9310. | 6. $\frac{39}{88}, \frac{15}{80}, \frac{24}{80}$. |
| 7. 460 shillings and 5520 <i>d</i> . | 8. 359·368816̄. |
| 9. 90 years. | 10. 28·863214. |
| 11. £3 6 <i>s</i> . | 12. 1182·1. |
| 13. £136 13 <i>s</i> . 9 <i>d</i> . | 14. £6478 10 <i>s</i> . |
| 15. £1 1 <i>s</i> . 11 $\frac{1}{3}$ <i>d</i> . | |

PAPER No. 31.

- | | |
|------------------------------------|--|
| 1. 8640. | 2. $1\frac{1}{4}$. |
| 3. £248 10 <i>s</i> . 0 <i>d</i> . | 4. 46. |
| 5. 10 mo. 0 w. 1 d. 11 hrs. | 6. $6\frac{1}{8}$. |
| 7. 150792. | 8. 135·20824̄. |
| 9. £12 18 <i>s</i> . 9 <i>d</i> . | 10. ·00234. |
| 11. 400 men. | 12. 6040. |
| 13. 11 hrs. 8 min. 25 secs. | 14. £999 6 <i>s</i> . 0 $\frac{1}{4}$ <i>d</i> . |
| 15. £15. | |

PAPER No. 32.

- | | |
|--|---|
| 1. 143300. | 2. 18. |
| 3. 428 wks. 4 days 15 hrs. | 4. $27\frac{2}{3}$. |
| 5. £1 13 <i>s</i> . 4 <i>d</i> . | 6. $\frac{3}{80}$. |
| 7. 177 tons 8 cwt. 0 qrs. 25 lbs. 11 oz. | |
| 8. ·089565. | 9. $11\frac{1}{2}$ miles. |
| 10. 200. | 11. £143 4 <i>s</i> . 10 $\frac{1}{2}$ <i>d</i> . |
| 12. ·175. | 13. 40823 guineas—17 <i>s</i> . |
| 14. £8. | 15. $1\frac{1}{2}$. |

PAPER No. 33.

1. Four thousand, two hundred and three millions, five thousand, six hundred and twenty-one.

- | | | |
|--|----------------------------------|----------------------------|
| 2. $\frac{61}{847}$. | 3. 2903. | 4. $4\frac{5}{8}$. |
| 5. 69 mls. 14 pls. 3 yds., or 69 mls. 80 yds. | | |
| 6. 7s. 6d. | 7. £2442 10s. | 8. 20000. |
| 9. $13\frac{1}{3}$. | 10. .3125. | 11. 12s. $9\frac{3}{8}$ d. |
| 12. $\frac{103}{2475}$. | 13. £63 11s. $7\frac{13}{288}$. | |
| 14. £34 9s. $5\frac{1}{2}$ d.— $1\frac{1}{8}$ q. | 15. 45. | |

PAPER No. 34.

- | | |
|----------------------------|---|
| 1. 1400302000503. | 2. $\frac{23}{3}$. |
| 3. 1811353600. | 4. 34. |
| 5. 23040 pints. | 6. $\frac{1}{30}$. |
| 7. £12 16s. 0d. | 8. 19·599078341013+&c. |
| 9. $3\frac{1}{8}$ sq. yds. | 10. 26lbs. 7 oz. 10·0608 drms. |
| 11. 976 coins. | 12. 1 cwt. 3 qrs. 24 lbs. $4\frac{198}{25}$ oz. |
| 13. $3\frac{3}{4}$. | 14. 327. |
| 15. 7200 men. | |

PAPER No. 35.

- | | |
|----------------------|---------------------------------|
| 1. 2744. | 2. $\frac{54}{9}$. |
| 3. £60806 10s. | 4. $\frac{101}{480}$. |
| 5. 7322 poles. | 6. 1 qr. 14 lbs. |
| 7. 2640 revolutions. | 8. 2040000. |
| 9. £56000. | 10. .428571. |
| 11. 9. | 12. $\frac{137}{88800}$. |
| 13. 6 days. | 14. £84 19s. $4\frac{1}{20}$ d. |
| 15. 15s. | |

PAPER No. 36.

- | | |
|-----------------------------------|-----------------------|
| 1. 100198600010090. | 2. $2\frac{14}{7}$. |
| 3. 864 barley corns. | 4. $1\frac{7}{10}$. |
| 5. 32 tons 13 cwt. 3 qrs. 22 lbs. | |
| 6. £81. | 7. £1 10s. |
| 8. 68·4342. | 9. £64 4s. |
| 10. .00002. | 11. 10 weeks. |
| 12. .48 or $\frac{12}{25}$. | 13. 2201 revolutions. |
| 14. $13\frac{1}{2}$ days. | 15. 233. |

PAPER No. 37.

- | | |
|-------------------------------------|--------------------------------|
| 1. 509006001. | 2. $\frac{1049}{1888}$. |
| 3. 187870—27. | 4. 3. |
| 5. 1215 knots—1600 yds. | 6. $\frac{118}{188}$. |
| 7. 207 c. yds. 17 c. ft. 409 c. in. | |
| 8. 1·851. | 9. £377 0s. 7 $\frac{1}{2}$ d. |
| 10. ·5136. | 11. 8 ft. 3 in. |
| 12. 8s. 9d. | 13. £129 15s. 10d. |
| 14. 3 $\frac{3}{8}$. | 15. 2 $\frac{2}{9}$. |

PAPER No. 38.

- | | |
|---|-------------------------------------|
| 1. 94,760,000. | 2. $\frac{13}{15}$. |
| 3. 8 mls. 4 fur. 10 pls. 4 yds. 1 ft. 1 in. | |
| 4. $2\frac{31}{42}$. | 5. 363 lbs. 11 oz. 3 dwts. 11 grs. |
| 6. $1\frac{1}{4}$. | 7. 2 qrs. 1 lb. |
| 8. ·012016. | 9. 11 lbs. 7 oz. 16 dwts. |
| 10. 286·5. | 11. £182 10s. |
| 12. 100·032. | 13. £524 13s. 9d. |
| 14. 18 days. | 15. 5 dwts. $3\frac{171}{223}$ grs. |

PAPER No. 39.

- | | |
|------------------------------------|--------------------------------|
| 1. 563714964. | 2. $1\frac{3}{8}$. |
| 3. £15 15s. and £4 5s. | 4. ·10875. |
| 5. 5000q. and 9 $\frac{3}{4}$ d. | 6. £14 1s. 10 $\frac{1}{2}$ d. |
| 7. £25 8s. or £2 2s. 4d. per head. | |
| 8. $\frac{3}{7}$. | 9. 103085 lbs. |
| 10. 203·7378. | 11. £194 11s. 8d. |
| 12. ·0078125. | 13. 23 lbs. 3 oz. 12 dwts. |
| 14. 15s. | 15. 8 cwt. 0 qrs. 14 lbs. |

PAPER No. 40.

- | | |
|--|--------------------------------|
| 1. 2 ac. 13 sq. pls. 13 sq. yds. 1 sq. ft. 121 sq. in. | |
| 2. 607 mls. 4 fur. 16 pls. | 3. $\frac{1}{16}$. |
| 4. 25. | 5. $\frac{109}{880}$. |
| 6. 45 days. | 7. £4375. |
| 8. 30 ft. 2 $\frac{3}{8}$ inches. | 9. £257 0s. 4 $\frac{1}{4}$ d. |
| 10. $\frac{163}{8800}$. | 11. 1 $\frac{1}{3}$ days. |
| 12. ·076339285714. | 13. 30784. |
| 14. 7 cwts. 3 lbs. 1·2 oz | 15. £2 |

PAPER No. 41.

- | | |
|---|-----------------------------------|
| 1. £959 5s. 11d. | 2. 18200. |
| 3. £13 7s. 4 $\frac{3}{4}$ d. | 4. $\frac{1}{4}\frac{3}{4}$. |
| 5. 132 yds. 2 ft. 7 in. | 6. 2d. |
| 7. 951 guineas and 9s. | 8. $\frac{1}{160}$. |
| 9. 62500 lbs. and £4166 13s. 4d. | |
| 10. 1382·142857. | 11. 13. |
| 12. 3 cwt. 2 qrs. 25 lbs. 14 oz. 6·4 drams. | |
| 13. 7403. | 14. 1 min. $\frac{60}{871}$ secs. |
| 15. £2 14s. 7 $\frac{1}{2}$ d. | |

PAPER No. 42.

- | | |
|---------------------------------|----------------------|
| 1. 1275 oranges. | 2. 1 $\frac{5}{8}$. |
| 3. £450. | 4. 3 $\frac{3}{4}$. |
| 5. £14399 17s. | 6. 1 $\frac{2}{7}$. |
| 7. 5 dwts. 3 $\frac{3}{4}$ grs. | 8. 222·3632. |
| 9. £5104 3s. 4d. | 10. ·031275 &c. |
| 11. £45. | 12. £·559375. |
| 13. 2s. 3d. | 14. £7 6s. 8d. |
| 15. 9506·24 + &c. | |

PAPER No. 43.

- | | |
|--|--|
| 1. 1348 tons 2 cwts. 3 qrs. 17 lbs. | |
| 2. 11. | 3. £1818256 0s. 2 $\frac{1}{4}$ d. |
| 4. $\frac{3}{8}$. | |
| 5. 10 yrs. 3 mths. 2 wks. 0 dys. 20 hrs. 23 min. 38 $\frac{2}{3}$ secs. | |
| 6. 22. | 7. 447 lbs. and 43 $\frac{2}{3}$ parcels. |
| 8. 152·10865. | |
| 9. 2859 crowns 2s. 5 $\frac{3}{4}$ d., 5718 half-crowns 2s. 5 $\frac{3}{4}$ d., and 57189 threepenny pieces 2 $\frac{3}{4}$ d. | |
| 10. ·0000461652. | 11. 4680. |
| 12. 7142857·142857. | 13. 27 lbs. 6 oz. 6 dwts. |
| 14. £53 2s. 6d. | 15. £11 5s. 4 $\frac{1}{2}$ d.— $\frac{5}{8}$ d. |

PAPER No. 44.

- | | |
|----------------------------|-------------------------------|
| 1. 59637. | 2. 7260. |
| 3. 1265 yds. 2 qrs. 2 nls. | 4. $\frac{2}{3}\frac{3}{5}$. |
| 5. £17 2s. 4d. | 6. $\frac{1}{284}$. |
| 7. 24 $\frac{4}{17}$ lbs. | 8. 64·359505. |

- | | |
|-------------------------|-----------------|
| 9. 29 ac. 3 rds. 3 pls. | 10. 19880. |
| 11. £401 3s. 11½d. | 12. 3s. 10·03d. |
| 13. 159 days. | 14. 5 per cent. |
| 15. £453 12s. | |

PAPER No. 45.

- | | |
|----------------------------------|---------------------|
| 1. 3625. | 2. $\frac{1}{9}$. |
| 3. 122400 grains. | 4. $4\frac{4}{5}$. |
| 5. 76 cwts. 1 qr. 11 lbs. 15 oz. | |
| 6. 2141½ lbs. | 7. 125·125. |
| 8. $9\frac{81}{101}$ inches. | 9. ·00041. |
| 10. 1 oz. 1 dwt. 9 grs. | 11. ·328125. |
| 12. £214 5s. 8½d. | 13. £309 19s. 6½½d. |
| 14. £10 5s. $7\frac{21}{107}$ d. | 15. 60 cwts. |

PAPER No. 46.

- | | |
|---|-------------------------------|
| 1. £5 19s. 9d. | 2. $1\frac{89}{120}$. |
| 3. £25526 1s. 8¼d. | 4. $\frac{7}{20}$. |
| 5. £3 6s. 3d. | 6. $4\frac{2}{3}$. |
| 7. 277 tons 6 cwts. 2 qrs. 0 lbs. 8 oz. | |
| 8. ·0829656. | 9. £84 11s. $9\frac{6}{7}$ d. |
| 10. ·053. | 11. $311\frac{19}{348}$. |
| 12. 23·98. | 13. £102 and 10s. 8½d. |
| 14. £3 11s. $3\frac{1}{2}$ d.—¾q. | 15. £397 2s. $\frac{3}{8}$ d. |

PAPER No. 47.

- | | |
|---|------------------------|
| 1. 5509746097. | 2. $\frac{1}{4}$. |
| 3. 8832q. | 4. $1\frac{11}{104}$. |
| 5. £16 12s. $8\frac{1}{4}$ d.— $1\frac{881}{931}$. | 6. £5066 13s. 4d. |
| 7. 2022 wks. 2 dys. 13 hrs. 6 min. | |
| 8. ·1487992. | 9. £1 17s. 6d. |
| 10. £·1675. | 11. £24 17s. 3d. |
| 12. £3 5s. $7\frac{1}{2}$ d. | 13. 13125. |
| 14. $11\frac{1}{4}$. | 15. 4320. |

PAPER No. 48.

- | | |
|----------------------------|-----------------------|
| 1. 81810. | 2. 2. |
| 3. $328\frac{1025}{948}$. | 4. $5\frac{15}{16}$. |

30 ANSWERS TO ARITHMETIC, PAGES 132 TO 135.

- | | |
|----------------------------------|--------------------------|
| 5. 868 tons 1 cwt. | 6. $\frac{199}{748}$. |
| 7. £33 3s. $5\frac{2}{3}d$. | 8. 430. |
| 9. £4 5s. 6d. | 10. $\cdot77459 + \dots$ |
| 11. £153 7s. $1\frac{1}{2}d$. | 12. $\cdot375$. |
| 13. £200. | 14. $7\frac{1}{2}$ lbs. |
| 15. £972 15s. $6\frac{1}{10}d$. | |

PAPER No. 49.

- | | |
|---|-------------------------------|
| 1. 80304384. | 2. $\frac{3}{7}$. |
| 3. 13 dys. 15 hrs. 27 min. 5 secs. | |
| 4. $11\frac{47}{60}$. | |
| 5. 4 lbs. 10 oz. 11 dwts. $23\frac{68}{303}$ grs. | |
| 6. £5 1s. 9d. | 7. 57 lbs. |
| 8. 64. | 9. £27 1s. $10\frac{1}{2}d$. |
| 10. $\frac{1}{825}$. | 11. 963 coins. |
| 12. $\cdot009598214285\bar{7}$. | |
| 13. 25 tons 15 cwts. 2 qrs. $31\frac{9795}{16677}$ lbs. | |
| 14. £34 11s. 6d. | 15. 950625. |

PAPER No. 50.

- | | |
|-----------------------|--|
| 1. 28455 ft. | 2. $7\frac{1}{2}$. |
| 3. 91214 grains. | 4. $1\frac{1}{4}$. |
| 5. £2582 2s. 6d. | 6. 13 cwt. 2 qrs. $19\frac{22}{77}$ lbs. |
| 7. $2\frac{1}{10}d$. | 8. $\cdot0125308$. |
| 9. 16s. | 10. $\cdot375$. |
| 11. £34 11s. 6d. | 12. $2\cdot646 + \dots$ |
| 13. 6440 men. | 14. $31\frac{2}{3}$ yds. |
| 15. $3\frac{3}{8}d$. | |

PAPER No. 51.

- | | |
|-------------------------------|--|
| 1. 103192902. | 2. 3396. |
| 3. £183 8s. 9d. | 4. $9\frac{5}{8}$. |
| 5. 55 years 20 weeks. | 6. £38 0s. $0\frac{1}{4}d$.— $\frac{179}{208}q$. |
| 7. 2s. $10\frac{1}{4}d$. | 8. $\cdot005334$. |
| 9. £73 16s. $8\frac{1}{4}d$. | 10. $\cdot36875$. |
| 11. $136\frac{8}{37}$. | 12. £34 17s. $1\frac{3}{4}d$.— $\frac{73}{149}$. |
| 13. £1283 6s. 8d. | 14. 4698. |
| 15. 2s. $10\frac{1}{4}d$. | |

PAPER No. 52.

- | | |
|---|------------------------------|
| 1. 427716. | 2. $\frac{1}{3}$. |
| 3. 4756 cwt. 2 qrs. 11 lbs. | 4. £2 6s. 4 $\frac{3}{4}$ d. |
| 5. 1041 $\frac{3}{4}$ miles. | 6. £7 19s. 9d. |
| 7. 6 lbs. 5 oz. 8 dwts. | 8. 34·3168. |
| 9. £16 10s. 8 $\frac{3}{4}$ d. | 10. $\frac{7}{800}$. |
| 11. 19s. 7 $\frac{3}{4}$ d.— $\frac{1}{8}$ q. | 12. £4 14s. 6d. |
| 13. 242 cwt. 3 qrs. 12 lbs. | 14. 6561. |
| 15. 9 days. | |

PAPER No. 53.

- | | |
|---|---|
| 1. 5623009. | 2. 33 $\frac{2}{18}$. |
| 3. 9360q. | 4. $\frac{2}{3}$. |
| 5. £668222 0s. 1 $\frac{1}{4}$ d. | 6. 2 qrs. 16 lbs. 13 oz. 14 $\frac{7}{8}$. |
| 7. 2880. | 8. 525·963. |
| 9. 12 lbs. 1 oz. 12 $\frac{1}{2}$ $\frac{1}{8}$ drams. | 10. 30000. |
| 11. 3 $\frac{2}{3}$ $\frac{3}{4}$ $\frac{1}{2}$ pieces. | 12. ·6 |
| 13. 6241. | |
| 14. £584 7s. 6d., £265 12s. 6d. | 15. 24 $\frac{2}{5}$. |

PAPER No. 54.

- | | |
|---|---|
| 1. 562638. | 2. 120. |
| 3. 236 $\frac{1}{2}$ $\frac{3}{4}$. | 4. 3 $\frac{2}{3}$. |
| 5. 365 dys. 5 hrs. 48 min. 48 secs. | |
| 6. £13194 3s. 7 $\frac{1}{2}$ d.— $\frac{6}{11}$ q. | |
| 7. 174 fur. 33 pls. 1 yd. 2 ft. 11 in. | |
| 8. 34903·176. | 9. 29 hrs. 6 min. 1 $\frac{2}{3}$ secs. |
| 10. 10. | 11. £1 7s. 5 $\frac{1}{4}$ d. |
| 12. £3 15s. 6d. | 13. £30 7s. 0 $\frac{3}{4}$ d.— $\frac{1}{3}$. |
| 14. £52 4s. 6 $\frac{1}{2}$ d. | |
| 15. 12 tons 11 cwt. 0 qrs. 19 $\frac{11}{16}$ lbs. | |

PAPER No. 55.

- | | |
|---|----------------------|
| 1. 529 tons 13 cwt. | 2. 2 $\frac{3}{4}$. |
| 3. 345 tons 14 cwt. 2 qrs. 11 lbs. | |
| 4. $\frac{5}{7}$ is greater by $\frac{4}{35}$. | 5. 112. |
| 6. 3 $\frac{4}{15}$. | 7. £31 10s. |
| 8. ·187. | 9. £71 3s. 9d. |

32 ANSWERS TO ARITHMETIC, PAGES 138 TO 140.

- | | |
|---|---------------------------|
| 10. .0084. | 11. 12s. 8d. |
| 12. £192. | |
| 13. A's share £200; B's share £333 6s. 8d.; C's £466 13s. 4d. | |
| 14. 8152. | 15. 24 $\frac{3}{8}$ lbs. |

PAPER No. 56.

- | | |
|--|---|
| 1. £1 2s. 10 $\frac{1}{2}$ d.— $\frac{358}{385}$. | 2. 3s. 1 $\frac{1}{4}$ d.— $\frac{10}{21}$ q. |
| 3. £421 4s. 3 $\frac{3}{4}$ d.— $\frac{1}{2}$ q. | 4. $\frac{1}{1120}$. |
| 5. 1215 $\frac{15}{19}$. | 6. 3 $\frac{2}{3}$. |
| 7. £12 4s. 10 $\frac{1}{2}$ d.— $\frac{50}{89}$ q. | 8. .0683468. |
| 9. 13s. 4 $\frac{896}{5773}$. | 10. $\frac{7}{800}$. |
| 11. 202 miles. | 12. $\frac{149}{11100}$. |
| 13. 40 $\frac{10}{43}$. | 14. £349 12s. 4 $\frac{1}{2}$ d. |
| 15. 16 $\frac{2}{3}$ days. | |

PAPER No. 57.

- | | |
|---|-----------------------------------|
| 1. £4 8s. 5 $\frac{1}{4}$ d.— $\frac{67}{99}$. | 2. 14 $\frac{1}{4}$. |
| 3. 9 wks. 1 day 7 hrs. 8 min. 24 secs. | |
| 4. $\frac{9}{32}$. | 5. 2077 lbs. 0 oz. 8 drs. |
| 6. £19 5s 3 $\frac{1}{17}$ d. | 7. 27171 oz. |
| 8. 20.6991. | 9. 12582 $\frac{138}{141}$. |
| 10. .005025 and 201. | |
| 11. 1 wk. 4 dys. 13 hrs. 46 min. 40 secs. | |
| 12. £8 3s. 0 $\frac{108}{125}$ d. | 13. £59 6s. 5 $\frac{17}{131}$ d. |
| 14. 28044 $\frac{36}{61}$. | 15. £75 13s. 4 $\frac{25}{32}$ d. |

PAPER No. 58.

- | | |
|---|-------------------------|
| 1. 12717001. | 2. 1 $\frac{19}{188}$. |
| 3. 6d. | 4. 1 $\frac{22}{7}$. |
| 5. 233 $\frac{23}{41}$ yds. | 6. $\frac{4}{5}$. |
| 7. £6 3s. 9 $\frac{1}{2}$ d.— $\frac{1}{8}$ q. | 8. .121315789473684. |
| 9. 17 guineas. | 10. .5136. |
| 11. 1 ton 18 cwt. 0 qrs. 27 lbs. 4 oz. and £79 1s. 7 $\frac{1}{2}$ d. | |
| 12. 21 lbs. | 13. 12001. |
| 14. 214 mls. 2 fur. 11 pls. 2 yds. 1 $\frac{1}{4}$ ft. | |
| 15. 18 days. | |

PAPER No. 59.

1. Nine hundred and eighty-seven millions, six hundred and fifty-four thousand, three hundred and twenty-one.

Ninety-eight million, seven hundred and sixty-five thousand, four hundred and thirty-two and one-tenth.

2. 840.

3. 554768.

4. $\frac{532}{1377}$.

5. 1877 tons 6 cwt. 21 lbs. 1 oz. 14 drs.

6. 1s. $8\frac{1}{2}d$.

7. £7186 7s. 6d.

8. 2·14065592.

9. 7155 napoleons and 7s. $6\frac{1}{4}d$. rem.

10. 195395·2.

11. 9375 Sardinians, 37500 Turks, 46875 English, 56250 French.

12. 4 cwt. 2 qrs. 21 lbs.

13. £61 18s. 5d.

14. £1 8s. $11\frac{1}{4}d$.— $\frac{435}{737}$.

15. 3 days.

PAPER No. 60.

1. Eight hundred and twenty-one and three thousand nine hundred and twenty-seven ten-thousandths.

2. £66863 13s. $5\frac{1}{4}d$.

3. 101·36636 + &c.

4. £19 14s. $7\frac{1}{2}d$.— $\frac{43}{128}$.

5. 2·00052416.

6. £155 11s. $1\frac{1}{3}d$.

7. 9.

8. 28·66 + &c.

9. £5 1s. $6\frac{1}{2}\frac{1}{4}d$.

10. 27 ft. 2' 8" 5''' 3''''.

11. $21\frac{23}{4}$.

12. ·3809.

13. A's share is £6144 10s., B's share £8602 6s., C's share £9831 4s.

14. $\sqrt{118\cdot81}$ is the greater by 3·9.

PAPER No. 61.

1. 757 tons 0 cwt. 3 qrs.

2. $\frac{1}{3}$.

3. £884818 6s. $7\frac{1}{2}d$.

4. $\frac{23}{8}$.

5. 9 mls. 4 fur. 39 p. 0 ft. $2\frac{10}{13}$ in.

6. $\frac{63}{180}$.

7. ·025592.

8. £2 5s. 7d.

9. £2 5s. 7d. and £4 11s. 2d.

- | | |
|------------------|---------------------------|
| 10. 2040000. | 11. 56224 $\frac{3}{7}$. |
| 12. £36875. | 13. £25 11s. 4d. |
| 14. £47 16s. 3d. | 15. 8d. |

PAPER No. 62.

- | | |
|--|-----------------------------------|
| 1. 3741193000. | 2. 3 $\frac{1}{3}$. |
| 3. 142 miles. | 4. 2 $\frac{1}{8}$. |
| 5. £5846 and £217 5s. | 6. $\frac{1}{2}$ $\frac{3}{3}$. |
| 7. 16 cwt. 2 qrs. 27 lbs. | 8. $\frac{3}{4}$ $\frac{3}{10}$. |
| 9. 41929 $\frac{7}{17}$ and 10249 $\frac{7}{17}$. | 10. 000602. |
| 11. £154 5s. 11 $\frac{1}{4}$ d. | 12. 13s. 7 $\frac{1}{2}$ d. |
| 13. 23 $\frac{1}{3}$. | |
| 14. Boys' share £10 19s. 9 $\frac{1}{4}$ d., women's share £20 19s. 6 $\frac{3}{4}$ d., men's share £47 19s. | |
| 15. £8 15s. 6 $\frac{3}{17}$ d. | |

PAPER No. 63.

- | | |
|--|---|
| 1. 99 tons 9 cwt. 0 qrs. 11 lbs. 6 oz. | |
| 2. $\frac{7}{10}$. | 3. £12621 7s. 6d. |
| 4. $\frac{31}{2848}$. | |
| 5. 2 tons 13 cwt. 3 qrs. 15 lbs. 12 oz. 11 $\frac{8}{17}$ drams. | |
| 6. 51 $\frac{3}{4}$. | 7. £3 10s. 11 $\frac{1}{2}$ d. |
| 8. 6300009. | 9. £6884 5s. |
| 10. 167433. | 11. £2594 15s. 7 $\frac{1}{2}$ d. |
| 12. 00910776. | 13. £5 19s. 4 $\frac{1}{4}$ d.—1 $\frac{3}{8}$ q. |
| 14. £21 7s. 1 $\frac{1}{2}$ d. | 15. 13125. |

PAPER No. 64.

- | | |
|-------------------------------------|--|
| 1. 306495278. | 2. $\frac{11}{40}$. |
| 3. 1364. | 4. 1 $\frac{1}{8}$. |
| 5. £104 5s. | 6. $\frac{1}{188}$. |
| 7. 10s. 4 $\frac{3}{4}$ d. | 8. 0002 and 628000. |
| 9. 11 of each. | 10. 1.737 + &c. |
| 11. 1882 tons 13 cwt. 2 qrs. 7 lbs. | |
| 12. 821875. | 13. £53 2s. 0 $\frac{3}{4}$ d.— $\frac{1}{2}$ q. |
| 14. 4698. | 15. 1 $\frac{1}{2}$ $\frac{1}{5}$ days. |

PAPER No. 65.

- | | |
|--|----------------------|
| 1. 91525. | 2. $1\frac{8}{9}$. |
| 3. 5 yds. 1 ft. 2 in. $\frac{334}{8}$. | 4. $19\frac{7}{7}$. |
| 5. 16s. $11\frac{1}{2}d$. | 6. 16s. 4d. |
| 7. £27 5s. $4\frac{887}{1120}d$. | 8. 1241·8452. |
| 9. $6\frac{48}{95}$ men. | 10. ·106962. |
| 11. £824 9s. $0\frac{1}{4}d$.— $\frac{3}{4}q$. | 12. £·36875. |
| 13. £1 8s. 6d. | 14. £43 17s. 6d. |
| 15. $23\frac{1}{3}$ days. | |

PAPER No. 66.

- | | |
|--|--|
| 1. £68 6s. 3d. | 2. $\frac{5}{18}$. |
| 3. 274. | 4. 4. |
| 5. 8s. 4d. | 6. $\frac{1}{7}$. |
| 7. £9 15s. | 8. 13·39695. |
| 9. 13s. 4d. | 10. $\frac{7}{800}$. |
| 11. $21\frac{1}{3}$ inches. | 12. £4 8s. 6d. |
| 13. 3s. $0\frac{1}{4}d$. | 14. £35 12s. $3\frac{1}{2}d$.— $\frac{2}{3}q$. |
| 15. £21 8s. $9\frac{1}{2}d$., £97 5s. 3d., and £6 15s. $11\frac{1}{2}d$. | |

PAPER No. 67.

- | | |
|---|---------------------------|
| 1. £6 5s. $8\frac{1}{4}d$. | 2. $1\frac{1}{60}$. |
| 3. 56320. | 4. $\frac{889}{999}$. |
| 5. £154 12s. $10\frac{3}{4}d$.— $\frac{3}{8}q$. | 6. £2450 8s. |
| 7. 37 lbs. 6 oz. | 8. 7782·82521. |
| 9. £7 10s. $9\frac{1}{2}d$.— $\frac{1316}{999}q$. | 10. 736. |
| 11. £6 8s. 4d. | 12. 7s. $4\frac{1}{2}d$. |
| 13. 4s. $0\frac{3}{4}d$. | 14. £5 10s. 6d. gain. |
| 15. 27 days. | |

PAPER No. 68.

- | | |
|---|------------------------------|
| 1. 5 tons 9 cwt. | 2. 2. |
| 3. £279 13s. 9d. | 4. 1008. |
| 5. 35712. | 6. 1. |
| 7. 6s. $4\frac{3}{4}d$.— $\frac{763}{1387}q$. | 8. 30·7930896. |
| 9. £3970 0s. $4\frac{1}{8}d$. | 10. 30000. |
| 11. £6 15s. 6d. and £2 5s. 2d. | |
| 12. ·91875. | 13. 2401. |
| 14. £6 0s. $3\frac{3}{4}d$. | 15. $7\frac{1}{2}$ per cent. |

PAPER No. 69.

- | | |
|---|-------------------------|
| 1. 32846. | 2. $14\frac{11}{16}$. |
| 3. £8 18s. $5\frac{1}{4}d$. | 4. $\frac{111}{2093}$. |
| 5. 75 coins. | 6. $\frac{1}{288}$. |
| 7. £34 9s. 4d. | 8. .0072. |
| 9. 2 cwt. 2 qrs. 11 lbs. and 2 cwt. 1 qr. 17 lbs. | |
| 10. .000097888. | 11. 1 oz. 1 dwt. 9 grs. |
| 12. 4 cwt. 2 qrs. 21 lbs. | 13. $14\frac{7}{8}$. |
| 14. £114 6s. | 15. £14 7s. 6d. |

PAPER No. 70.

- | | |
|---|--|
| 1. £1 2s. $3\frac{1}{4}d$. | 2. $\frac{7}{27}$. |
| 3. 29 dys. 12 hrs. 44 min. 3 secs. | |
| 4. $\frac{7}{8}$. | 5. £594. |
| 6. $5\frac{1}{12}$. | 7. 37760. |
| 8. 782·8594. | |
| 9. £16 10s. each boy's share and £49 10s. each man's share. | |
| 10. 76·923076923. | 11. £15 8s. 3d. |
| 12. 10s. $6\frac{1}{2}d$.— $\frac{1}{4}q$. | 13. £1173 6s. 8d. |
| 14. $51\frac{5}{3}$. | 15. 18s. $0\frac{1}{2}d$.— $\frac{2}{8}q$. |

PAPER No. 71.

- | | |
|---|------------------------------|
| 1. 304. | 2. $25\frac{3}{2}$. |
| 3. £2. | 4. $\frac{29}{83}$. |
| 5. £419 5s. $1\frac{1}{2}d$. | 6. $\frac{21}{100}$. |
| 7. £212 6s. $9\frac{3}{4}d$.— $\frac{23}{8}q$. | 8. $\frac{99}{10000}$. |
| 9. 13 cwt. 2 qrs. 1 lb. | 10. .00021. |
| 11. 68 ft. 8 in. | 12. 7s. $3\frac{3}{4}d$. |
| 13. $61\frac{7}{8}$ per cent. gain. | 14. $93\frac{9}{20}$ ounces. |
| 15. A's share £145 9s. $1\frac{1}{11}d$., B's share £436 7s. $3\frac{3}{11}d$., C's share £218 3s. $7\frac{7}{11}d$. | |

PAPER No. 72.

- | | |
|------------------------|------------------------------|
| 1. 89. | 2. $15\frac{64}{105}$. |
| 3. 42 yds. 2 ft. 2 in. | 4. $2\frac{5}{8}$. |
| 5. 2240 oranges. | 6. £36 8s. $6\frac{3}{4}d$. |
| 7. 5d. | 8. 21059·459. |

- | | |
|---------------------------------|-----------------------------|
| 9. £384 10s. 6 $\frac{1}{4}$ d. | 10. 7·0456. |
| 11. £1 12s. 5 $\frac{1}{4}$ d. | 12. £342708 $\frac{3}{4}$. |
| 13. 5343. | 14. 5s. |
| 15. 2 months. | |

PAPER No. 73.

- | | |
|---|--|
| 1. 13. | 2. 9 $\frac{7}{12}$. |
| 3. £2 10s. | 4. 14 $\frac{3}{4}$. |
| 5. 2 oz. 0 dwts. 19 $\frac{29}{100}$ grs. | 6. £4 14s. 6d. |
| 7. £15065 0s. 6 $\frac{3}{4}$ d. | 8. 373·51929. |
| 9. £2 3s. 4d. | 10. 32270. |
| 11. 15s. 9 $\frac{3}{4}$ d. | 12. 12s. 7 $\frac{1}{2}$ d.— $\frac{9}{25}$ q. |
| 13. 2222. | 14. 2808. |
| 15. 18446541·4. | |

PAPER No. 74.

- | | |
|--|---------------------------------|
| 1. 29921 and 140178. | 2. 25 $\frac{3}{7}$. |
| 3. 10882 lbs. 2 oz. 14 dwts. 7 grs. | |
| 4. 900. | 5. 5 $\frac{3}{4}$ d. |
| 6. £2 10s. 8d. | 7. £1492 11s. 6d. |
| 8. 4010. | 9. 39 of each. |
| 10. 1 $\frac{87}{250}$. | 11. £15 17s. 9 $\frac{3}{4}$ d. |
| 12. 5 tons 13 cwt. 1 qr. 15 lbs. 10 oz. 14·08 drams. | |
| 13. £1 1s. gain. | 14. 513. |
| 15. £40 8s. 3d. | |

PAPER No. 75.

- | | |
|---|--|
| 1. 40 and 90. | 2. 13s. 10 $\frac{1}{2}$ d. |
| 3. 10001. | 4. 8 : 15. |
| 5. 19 miles and 35 miles. | 6. 1 mile. |
| 7. £3 10s. | 8. £13333 6s. 8d. |
| 9. £183 12s. 4d. | 10. —6. |
| 11. $\frac{1}{8}$, and shares are £15000, £21000, and £9000. | |
| 12. 7 $\frac{2}{3}$. | 13. $\frac{3}{100}$ and $\frac{231}{8000}$. |
| 14. £4000. | 15. $\frac{2}{75}$. |

PAPER No. 76.

- | | |
|--|--------------------------|
| 1. 5 $\frac{5}{11}$ days. | 2. ·0021 and ·4375. |
| 3. £2 10 $\frac{31}{100}$ s. increase. | 4. $\frac{1384}{1975}$. |
| 5. M : N :: 18 : 17. | 6. 64. |

7. £152 2s. 3 $\frac{1}{2}$ d. 8. 9 $\frac{7}{8}$ 4.
9. Parts are 120, 72, and 45. 10. 8 ft. 10 $\frac{2}{3}$ in.
11. 84 yds. 2 ft. 2 in. 12. 22 $\frac{1}{2}$.
13. £58 1s. 4d.
14. A's share £162, B's share £324, C's share £405,
D's share £486, E's share £648.
15. 3 $\frac{2}{17}$.

PAPER No. 77.

1. 2640 and 45·35.
2. 50 sovs. and 320 halfcrowns.
3. 5 $\frac{5}{11}$ min. after one.
4. 1 $\frac{23}{44}$.
5. 7 ft. 4 $\frac{8}{9}$ in.
6. ·0046 and 46000.
7. 4s. 10 $\frac{1}{4}$ d.— $\frac{11}{8}$.
8. £16034 9s. 7 $\frac{3}{4}$ d.— $\frac{13}{29}$ q. and £13965 10s. 4d.— $\frac{16}{29}$ q.
9. £11 12s.
10. £6 5s. 10 $\frac{5}{9}$ d.
11. $\frac{7}{180}$.
12. 2 $\frac{67}{30}$.
13. 48.
14. 3759 and 2685.
15. £6 9s. 10d.

PAPER No. 78.

1. Four hundred and twenty six, and twenty-one one-hundred-thousandths.
2. 1 ton 8 cwt. 1 qr. 25 lbs. 14·24 oz.
3. £7 10s. 2½d.
4. £22429 18s. 1⁶¹/₁₀₇d. and £17570 1s. 10⁴⁶/₁₀₇d.
5. A has £3200, B £4800, C £6000, and D £7000.
6. 13s. 9d.
7. £55 6s. 10½d.
8. 4²/₃.
9. £196 13s. 6¾d.
10. 14³/₁₄.
11. 5·48 &c. and 12·84.
12. 4 tons 19 cwt. 2 qrs. 6·2 lbs.
13. £126 12s. 8d.
14. £2 16s. 6⁸/₁₃d.
15. 7.

PAPER No. 79.

1. $3\frac{3}{8}$.
2. £4 15s. $7\frac{1}{2}\frac{2}{3}d$.
3. 20° centigrade.
4. $26\frac{2}{3}$.
5. $3\frac{1}{8}$.
6. £1024 and £1280.
7. £43 9s. $4\frac{7}{8}\frac{3}{4}d$.
8. 24·701 francs.
9. £5700.

10. 50 moidores and 200 four-shilling pieces.
11. £4.
12. 13 cwt. 1 qr. $17\frac{1}{2}$ lbs.
13. 1246 piastres $6\frac{2}{3}$ rials.
14. 10 yds. 11 in.
15. 9 days,

PAPER No. 80.

1. $16\frac{4}{11}$ minutes.
2. £4000.
3. 2 qrs. $3\frac{5}{7}$ lbs. and 3 qrs. $24\frac{1}{7}$ lbs.
4. £45.
5. $\frac{1}{37}$.
6. 8 hours.
7. A pays £36, B £18, and C £6.
8. $21\frac{3}{4}$ per cent.
9. £268 13s. 4d.
10. 8 ft. 4 in.
11. 25.
12. $10\cdot01 + \&c$.
13. 80 days and $10\frac{1}{11}$ days.
14. $458\frac{8}{19}$ gallons.
15. $13\frac{7}{11}$ minutes.

PAPER No. 81.

1. 2500 yards and $4166\frac{2}{3}$ yards.
 2. 3920 oxen.
 3. $\frac{6997}{18300}$.
 4. Time by coach = $7\frac{2}{3}$ hrs., train = $3\frac{2}{3}$ hrs. \therefore rate of coach
- : rate of train :: $1 : \left(\frac{7\frac{2}{3}}{3\frac{2}{3}} \text{ or } 2\frac{1}{11} \right)$.
5. 11 min. 41 secs.
 6. 120 days.
 7. 4 hours $12\frac{1}{8}$ minutes.
 8. $15\frac{1}{3}$ per cent.
 9. £7 8s. $4\frac{3}{4}d. - \frac{1}{8}q$.
 10. 343 balls.
 11. £4125.
 12. 147 balls.
 13. £12 13s. $2\frac{1}{4}d$.
 14. 140, 170, 190.
 15. $15\frac{685}{1408}$ sovs.

PAPER No. 82.

1. £1 11s. $10\frac{1}{2}d$. and £2 7s. $10\frac{1}{2}d$.
2. 1771.
3. 8s. 4d.
4. £1 6s. $0\frac{3}{4}d. - \frac{5}{8}q$.
5. £24000.
6. £712 and £178.
7. $\frac{3}{4}$.
8. £160.
9. $123\frac{3}{4}$.
10. $11\frac{1}{8}d$.
11. $112\frac{1}{2}$ sq. feet.
12. 12 cwt. of nitre, $2\frac{3}{4}$ cwt. of charcoal, and $1\frac{3}{4}$ cwt. of sulphur.

13. $2\frac{1288}{1733}$.
14. $260\frac{1}{2}$ sq. ft. and £21 13s. $5\frac{2}{3}d$.
15. $91\frac{1}{4}$ gallons.

PAPER No. 83.

1. 3.
2. 63, 84, and 147.
3. $12342\frac{2}{7}$ bricks.
4. A has £200 and B £100.
5. 2 lbs. 10 oz. 12 drams.
6. 8.
7. Junior partners receive £150 each, second partner £750, and senior partner £900.
8. £76 1s. $8\frac{2}{3}d$.
9. $5\frac{5}{11}$ min., $21\frac{9}{11}$ or $54\frac{6}{11}$ min., and $38\frac{2}{11}$ min.
10. £64 4s.
11. £14 8s.
12. $210\frac{114}{173}$ drams.
13. 22 ft. $8\frac{8}{11}$ inches.
14. £441 1s. $6\frac{1}{9}d$.
15. £5 8s. $11\frac{1}{2}d$.

PAPER No. 84.

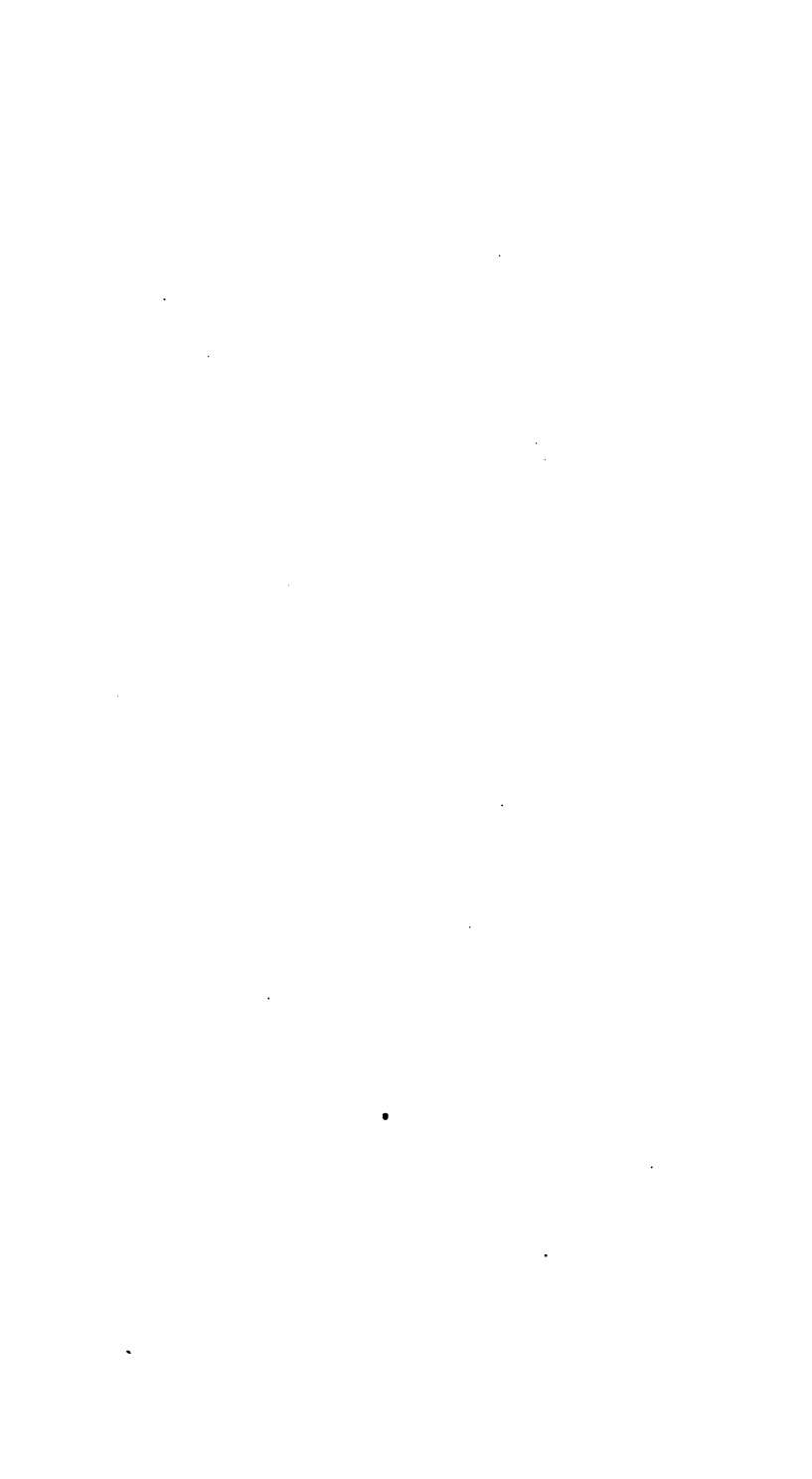
1. £16 10s. $0\frac{20}{851}d$.
2. $17\frac{4}{25}$.
3. $3\frac{1}{4}$ bushels.
4. £250 10s. 5d.
5. 1 ft. $4\frac{2}{3}$ in. and 1 ft. $11\frac{1}{3}$ in.
6. 13 days.
7. 140 yards.
8. £1 1s. $6\frac{1}{16}d$.
9. $1\frac{3}{4}$ oz. and 37 lbs.
10. 56.
11. $12\frac{19}{189}$.
12. £33.
13. 4484925.
14. $17\frac{1}{4}$.
15. £5 0s. $3\frac{1}{8}d$.

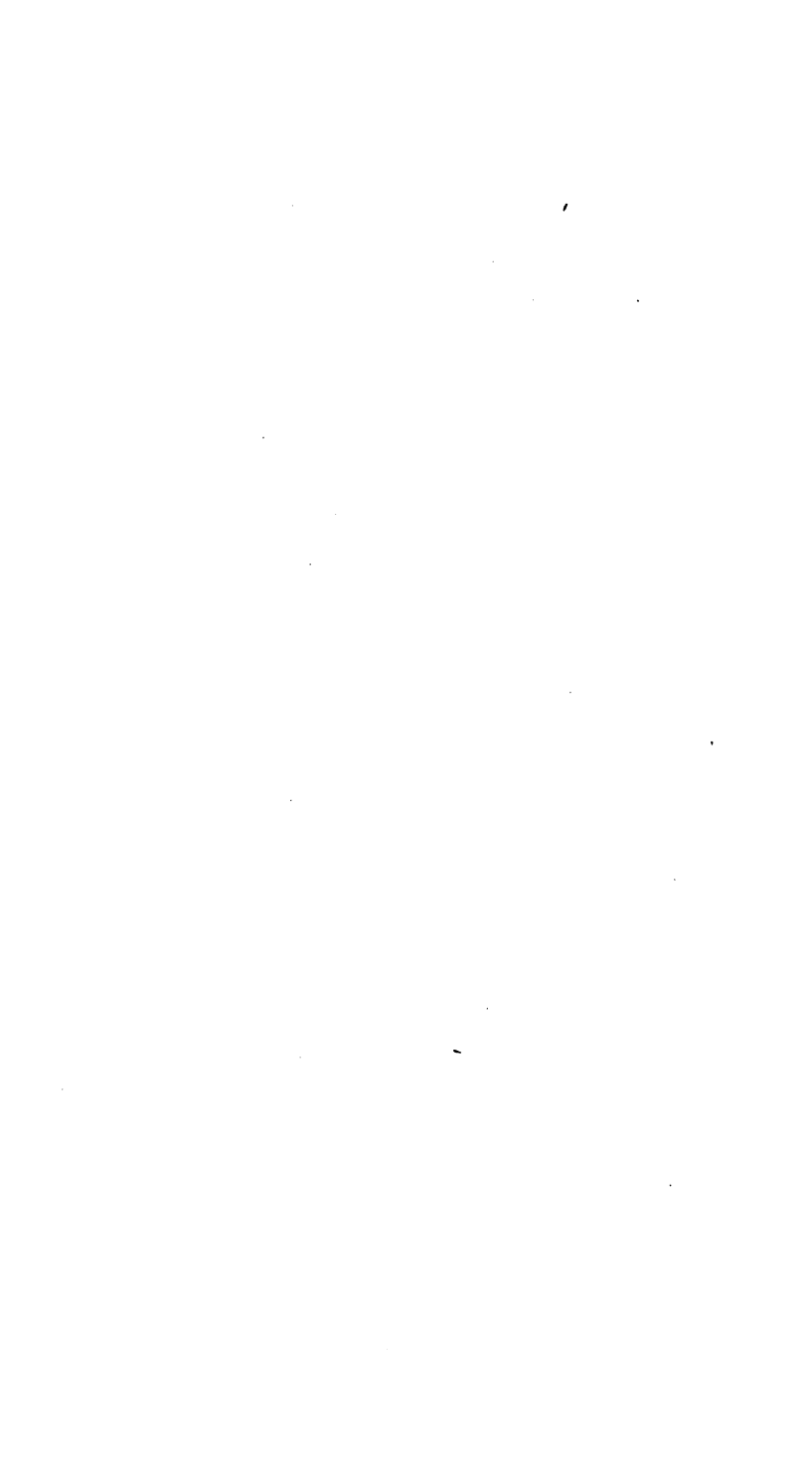
PAPER No. 85.

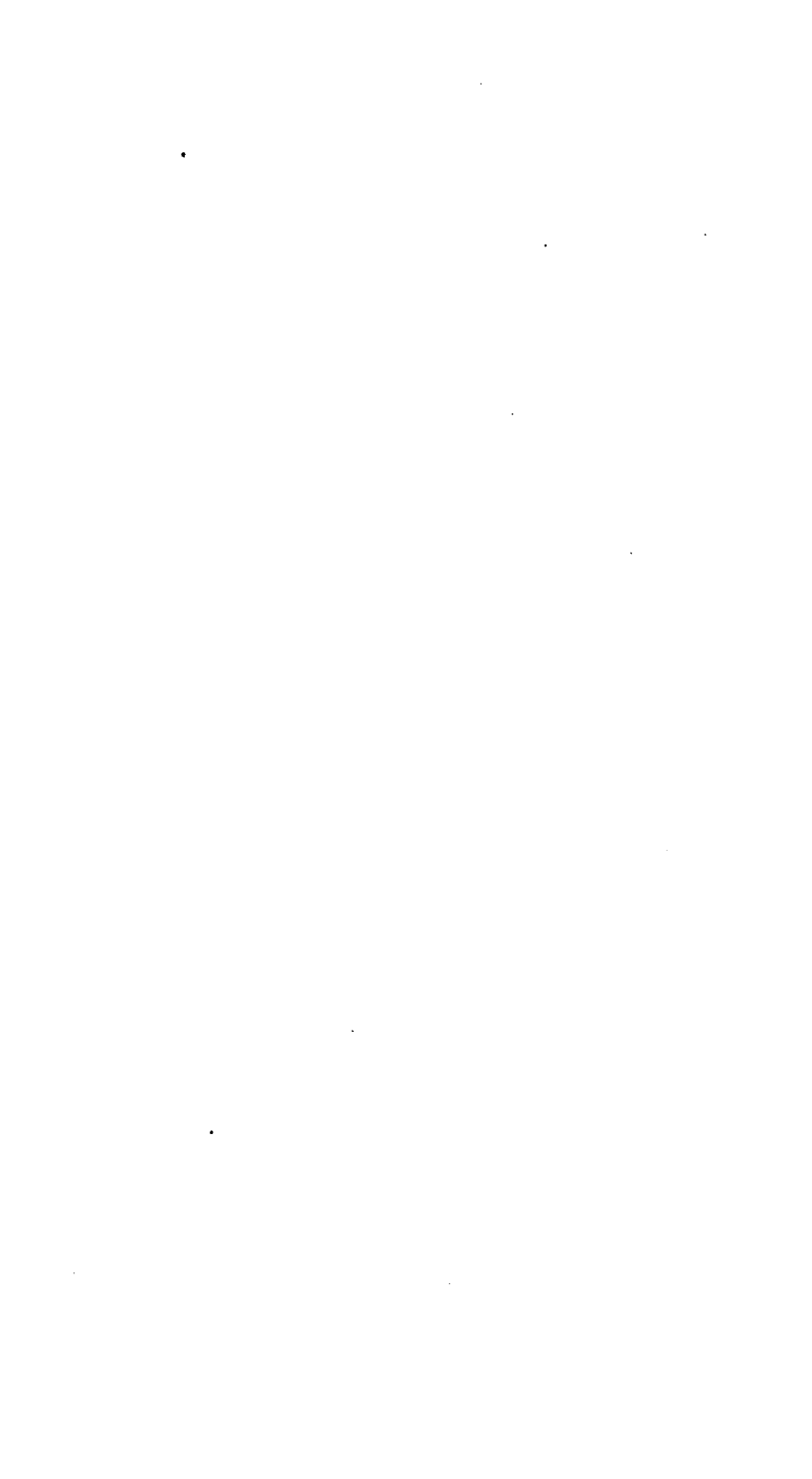
1. £6 12s. 6d.
2. £10 9s. $8\frac{1}{4}d$. — $\frac{13}{181}q$.
3. 12s. $11\frac{2}{3}d$.
4. 3d.
5. 15 men.
6. £3 15s. $2\frac{7}{8}d$.
7. 96.
8. 5 hrs. 1' 52' 35".
9. 3·104 days.
10. 10.
11. $70\frac{7}{13}$.
12. £2 14s. $7\frac{1}{2}d$.
13. £55.
14. £41 7s. 2d.
15. $379\frac{1}{2}$.

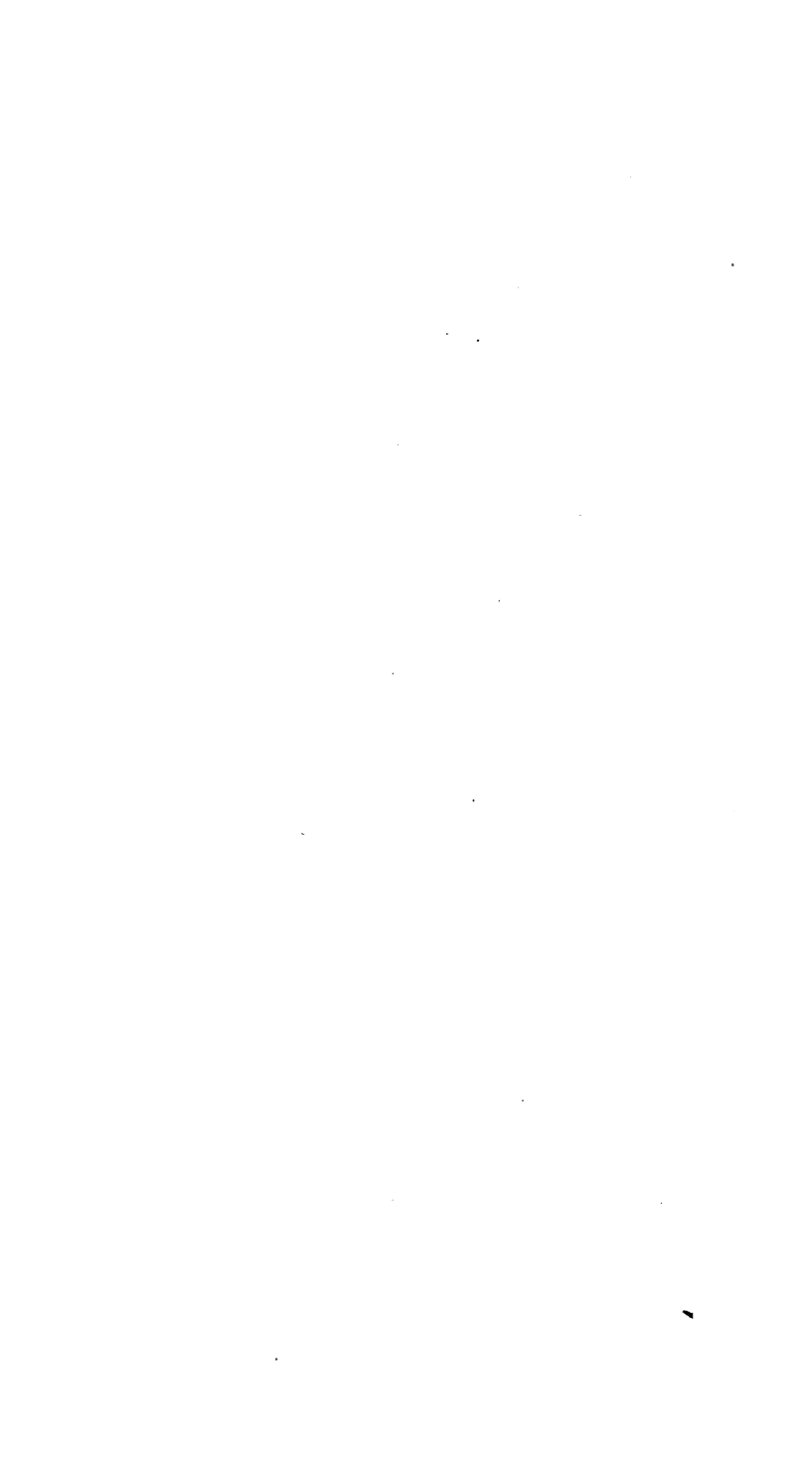


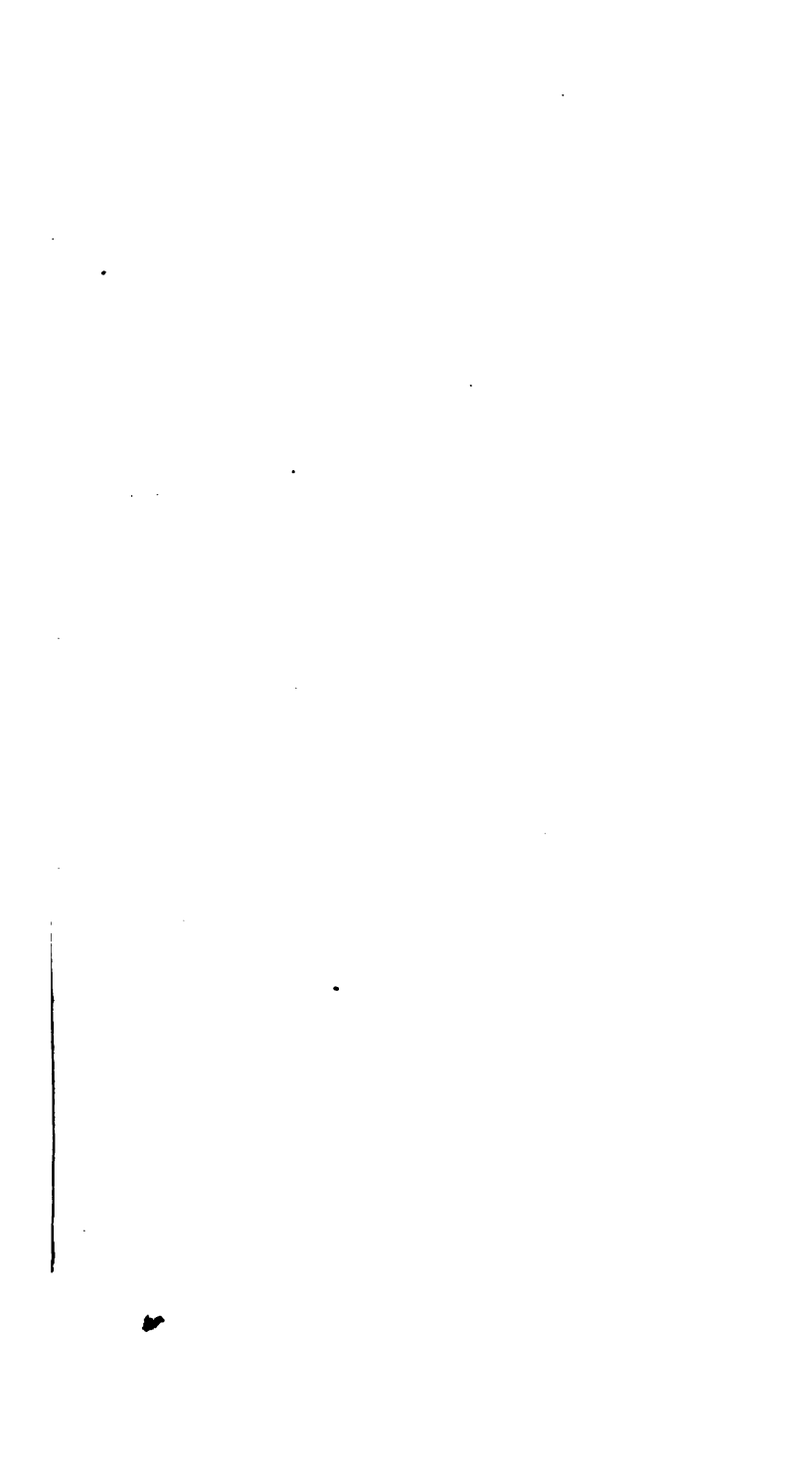


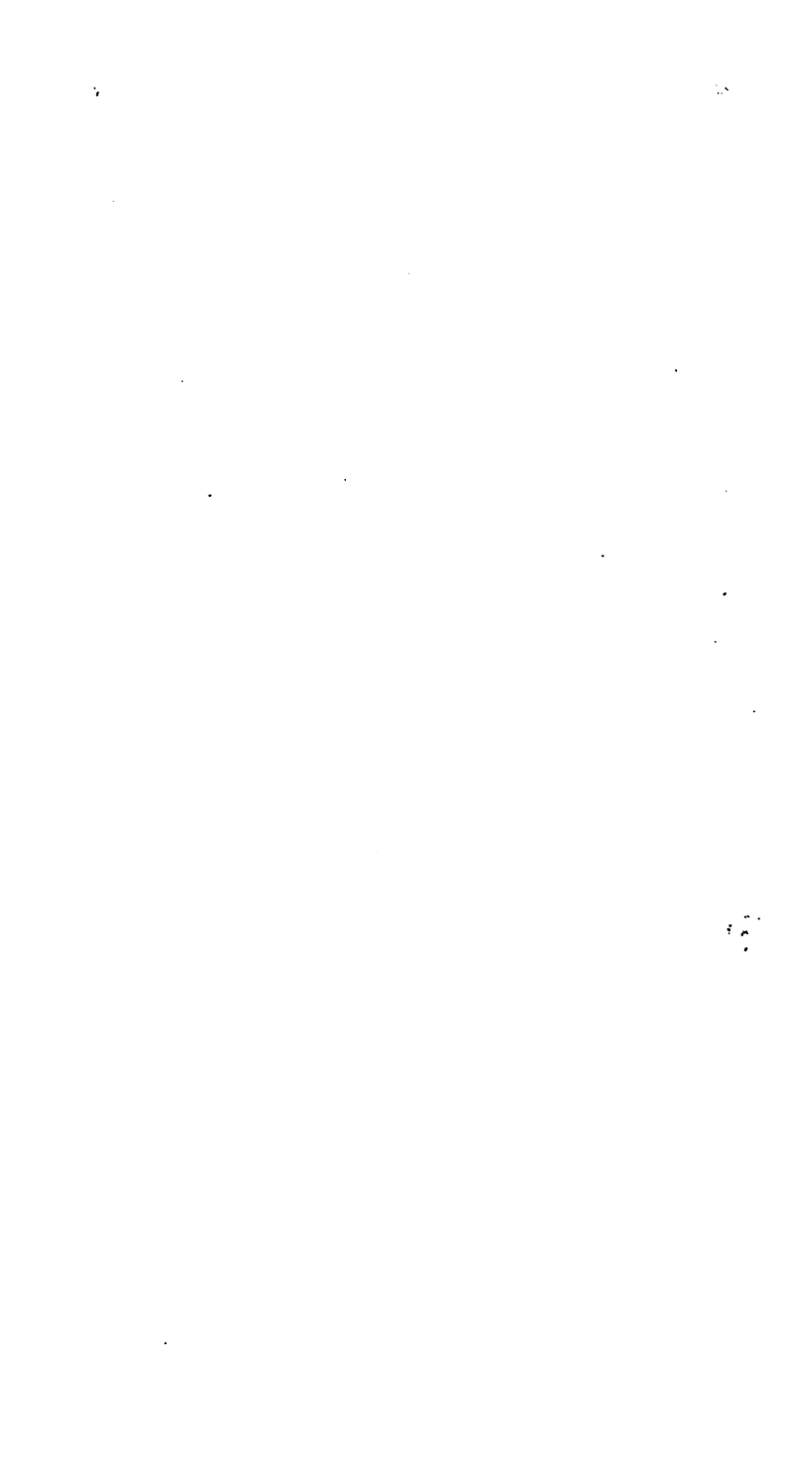














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